

## FLORISTICS OF THE UPPER WALKER RIVER, CALIFORNIA AND NEVADA

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**ABSTRACT.**— A checklist of the vascular flora of the upper Walker River is presented. Listed are 1078 taxa from this 4000 km<sup>2</sup> area. The upper Walker River encompasses a portion of the boundary between the Intermountain and Sierra Nevada floristic regions, and hence displays much floristic diversity within a relatively small area. Due to its location along the east slope of the Sierra Nevada, the Walker River drainage is unique in that it contains much elevational variation eastward into the Intermountain Region. This elevational extension is due to the presence of large mountain ranges including the Sweetwater Mountains, the Bodie Hills, and the Wassuk Range. As a result of this elevational variation, there is much overlapping of the two floristic regions. Additionally, the easternmost exposures of the Sierran granodiorites occur within the Walker River basin and may enhance the eastward migration of Sierran plants. The 90 percent floristic similarity (Sorenson's) between the Sweetwater Mountains, lying to the east of the Sierra, and the east slope of the Sierra Nevada (within the Walker River drainage) indicates the Sweetwaters to be more affiliated with the Sierran flora instead of the Intermountain flora.

The upper Walker River drainage includes an area of approximately 4000 km<sup>2</sup>, located at the north end of Mono County, California, the southern ends of Douglas and Lyon counties, Nevada, and the western edge of Mineral County, Nevada. The western boundary of this drainage generally follows the crest of the Sierra Nevada from the Conway Summit-Virginia Lakes area, northward to the Topaz Lake-Monitor Pass area. The eastern boundary is delimited by the Bodie, Masonic, and Pine Grove hills and the southwest slopes of the Pine Nut Range. The Sweetwater Mountains and the Wellington hills lie between these hills and the Sierra Nevada.

East slope Sierran vegetation present here has been generally described by Billings (1951) and Rundel et al. (1977). The area is dominated by mixed conifer forests composed of *Pinus jeffreyi* and *Abies concolor* at the low elevations, and *Abies magnifica*, *Tsuga mertensiana*, *Pinus monticola*, and *P. albicaulis* at the higher elevations. The alpine vegetation of the Sierra is uniquely adapted for extreme summer drought (Chabot and Billings 1972).

To the east of the Sierra, Intermountain vegetation (high elevation sagebrush steppe situated above woodlands composed of *Pinus monophylla* and *Juniperus osteosperma*) pre-

dominates. This vegetation has also been briefly described by Billings (1951). The Sweetwater Mountains, situated between the Intermountain and Sierran floristic regions, display characteristics of both.

The vascular flora of the upper Walker River is modestly represented in literature. Works such as Hinton (1975), Reveal (1968), Cox (1972), Reveal and Ertter (1980), Hardham and True (1972), Strother (1974), Munz (1968), Barneby (1964), Dempster and Ehrendorfer (1965), Halse (1981), and others cite specific collections made within this area. Davis (1979) compiled a plant list and keys to the plants occurring on the east central Sierra (Owens Lake to Lake Tahoe) and associated desert ranges. This work was based solely on distributions given in existing floras.

Sharsmith (1940) includes the Walker River portion of the Sierra Nevada as the northernmost boundary of the Sierra alpine floristic region. This area includes Leavitt Peak south to Dunderberg Peak. Thorne (1982) defines the upper Walker River basin as the northern boundary of the transmontane Californian floristic region.

Major and Taylor (1977) conducted a vegetation study of the alpine zone of the Sweetwater Mountains. They list 43 species from the area. Taylor (1977) indicates a 40–50

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percent floristic similarity (Sorenson's) between the Carson Pass area of the Sierra Nevada and the Sweetwater Mountains. Since a 50 percent turnover rate in plant species occurs every 650 km along the Cascade-Sierran axis (Taylor 1977), the Walker River portion of the Sierra must have a very high degree of similarity with Carson Pass, 60 km to the north. An interpretation of this would mean the Walker River portion of the Sierra has approximately a 50 percent floristic similarity to the Sweetwaters.

Bell (1980) described the alpine flora of the Wassuk Range, located in the lower Walker River drainage just west of Walker Lake (50 km east of the Sweetwater Mountains). She lists 70 vascular plants from the alpine flora of this region. Bell has also recently completed a study of the alpine flora of the Sweetwater Mountains, but this information is unavailable.

Messick (1982) completed a flora of the Bodie Hills, and the results of this work are incorporated in Table 1.

The upper Walker River drainage is the region of several type collections. The Sweetwater Mountains are the type locale for *Cordylanthus ramosus* ssp. *setosus*, *Senecio pattersonensis* and *Draba lemmonii* var. *incrassata*. In the Bodie Hills, we have the type locale for *Draba quadricostata*, *Pinus monophylla*, *Arabis bodiensis* (see Rollins 1982), *Streptanthus oliganthus*, and *Phacelia monoensis*. *A. bodiensis*, *S. pattersonensis*, *D. lemmonii* var. *incrassata*, and *D. quadricostata* are endemic to the Walker River drainage.

The Wellington Hills are the type locale for *Astragalus oophorus* var. *lavinii*, and Sonora Pass for *Raillardella argentea*, *Cymopterus cinerarius*, and *Wyethia mollis*. "A dry rocky mountain near Sonora Pass" is the type location for *Astragalus platytropis*, *A. lentiginosus* var. *ineptus*, and *A. whitneyi*. Barneby suggests that the type locale for these three *Astragali* may be the Sweetwater Mountains. However, during the course of this investigation, all three, including *A. platytropis*, were found on Leavitt and Emma Peak of the Sierra Nevada. Therefore, the type locale given by Gray could have possibly referred to the Sierra instead of the Sweetwaters.

## METHODS

The checklist (Table 1) was developed from collections made during the course of this study: July 1979 to August 1982. Additional collections were recorded from the herbaria at the University of Nevada, Reno (RENO), The New York Botanical Garden (NY), and the California Academy of Sciences (CAS). Collections from the upper Walker River made by Arnold Tiehm and Margaret Williams, Reno, Nevada; Steve Wharff, Tonopah, Nevada; Frank Smith, Smithfield, Utah; Dennis Breedlove, CAS; Joe Robertson, E. F. Kleiner, Tom Lugaski, Pat and Ham Vreeland, H. N. Mozingo, and Fred Ryser, all from the University of Nevada, Reno, were also recorded in this checklist. Approximately 3850 numbers were recorded. Distributional information contained within the checklist was continually refined while in the field. Various documentary works, mentioned in the introduction, were used to determine those plants that have a probable distribution within the upper Walker River drainage, but were not observed during this study.

Almost all of the taxa listed can be found on deposit at the University of Nevada, Reno, herbarium and the Toiyabe National Forest Supervisor's Office, Reno, Nevada.

The purposes of the checklist (Table 1) are to both document the flora present in the upper Walker River and to document the geographical and altitudinal distribution of each taxon within this area. Nomenclature generally follows Kartesz and Kartesz (1980).

## RESULTS AND DISCUSSION

Table 1 lists 1078 taxa of vascular plants from the upper Walker River. The upper Walker River drainage is unique in that it extends much elevational variation of the east slope of the Sierra Nevada eastward into the Intermountain Region, due to the presence and close proximity of such large mountain ranges as the Sweetwater Mountains, the Bodie Hills, and the Wassuk Range. Along any floristic boundary there is bound to be some overlap of unique plant species or characteristic vegetation of one flora into another. However, many plants having their center of distribution in the Intermountain Region

also have outlying populations in the montane environments of the Sierra Nevada. This phenomenon is discussed by Taylor (1976) for the Carson Pass area of the Sierra. He attributes the occurrence of many Intermountain plants on the east slope of the Sierra to Xerothermic invasion. A list of these plants at the headwaters of the Walker River follow:

*Agoseris glauca* var. *monticola*  
*Allium bicepstrum*  
*Allium parvum*  
*Arabis bodiensis*  
*A. pulchra* var. *pulchra*  
*Artemisia arbuscula*  
*Aster ascendens*  
*Astragalus platytropis*  
*A. iodanthus*  
*Amelanchier utahensis*  
*Antennaria dimorpha*  
*Balsamorhiza sagittata*  
*Calyptridium roseum*  
*Cercocarpus ledifolius*  
*Cirsium utahense*  
*Cheilanthes gracillima*  
*Chenopodium overi*  
*Chorizanthe brevicornu* var. *spathulata*  
*Chrysothamnus nauseosus* ssp. *albicaulis*  
*C. viscidiflorus*  
*Crepis acuminata*  
*C. modocensis* ssp. *subacaulis*  
*Castilleja linariifolia*  
*Cordylanthus ramosus* ssp. *setosus*  
*Cryptantha circumscissa*  
*Cryptantha echinella*  
*Erigeron aphanactis*  
*E. nevadincola*  
*E. breweri* var. *porphyreticus*  
*E. eatonii* ssp. *plantagineus*  
*Eriogonum elatum*  
*E. microthecum* var. *ambiguum*  
*E. ovalifolium* var. *nevadense*  
*E. wrightii* var. *subscaposum*  
*Galium multiflorum*  
*Gilia leptantha* ssp. *salticola*  
*Grayia spinosa*  
*Haplopappus acaulis*  
*Heuchera duranii*  
*Hydrophyllum capitatum* var. *alpinum*  
*Leptodactylon pungens*  
*Linanthus nuttallii*  
*Lupinus caudatus* ssp. *caudatus*  
*L. nevadensis*  
*Lomatium nevadense* var. *nevadense*  
*Lomatium nevadense* var. *parishii*  
*Melica stricta*  
*Mentzelia congesta*  
*Mimulus densus*  
*M. rubellus*  
*Navarretia breweri*  
*Opuntia polyacantha* var. *rufispina*  
*Poa nevadensis* var. *juncifolia*  
*P. nevadensis* var. *nevadensis*  
*Paeonia brownii*

*Penstemon bridgesii*  
*Phoenicaulis cheiranthoides*  
*Phacelia humilis*  
*Phlox covillei*  
*Plagiobothrys hispidus*  
*P. kingii* var. *harknessii*  
*Prunus andersonii*  
*Purshia tridentata*  
*Pinus monophylla*  
*Ribes velutinum*  
*Rosa woodsii* var. *ultramontana*  
*Scrophularia desertorum*  
*Senecio canus*  
*S. pattersonensis*  
*S. spartioides*  
*Sisyrinchium halophilum*  
*Sphaeromeria cana*  
*Stephanomeria spinosa*  
*Streptanthus oliganthus*  
*Tetradymia canescens*  
*Thelypodium crispum*  
*Zigadenus paniculatus*

These 77 plant taxa represent approximately 10 percent of the flora present on the east slope of the Sierra within the Walker River drainage. This is below Taylor's (1976) estimate of 20 percent for the east slope within the Carson River drainage just to the north. However, when distribution records become more complete, it would not be surprising to find 20 percent of the Sierran flora within the Walker River basin being composed of Intermountain elements.

The Xerothermic climate may also have been responsible for the northern migration of *Amelanchier pallida* var. *covillei*, *Ceanothus greggii* var. *vestitus*, *Cercocarpus ledifolius* var. *intricatus*, *Ivesia purpurascens* ssp. *condonis*, *Cryptantha confertiflora*, *Phacelia peirsoniana*, and *Plagiobothrys jonesii*. The Walker River drainage may be the northernmost location for these plants. (*Cryptantha confertiflora* has been found just to the north in the Carson River drainage.)

It is documented that the eastward migration of Sierran plant species into the Intermountain Region is small relative to the westward migration of Rocky Mountain plants into this region (Harper et al. 1978). However, the Walker River drainage has many Sierra or Pacific cordilleran plant species occurring well into the Intermountain Region, some of which occur as far east as Masonic Mountain or the Wassuk Range. A list of these plants follows:

*Agropyron pringlei*  
*Allium campanulatum*

Allophyllum gilioides  
 A. violaceum  
 Amelanchier pallida  
 Anelsonia eurycarpa  
 Angelica lineariloba  
 Arabis inyoensis  
 A. platysperma var. *howellii*  
 Arnica nevadensis  
 Astragalus kentrophyta var. *danaus*  
 A. lentiginosus var. *ineptus*  
 A. purshii var. *lectulus*  
 Calochortus leichtlinii  
 Carex tahoensis  
 Chaenactis nevadensis  
 Chrysothamnus parryi ssp. *monocephalus*  
 Claytonia nevadensis  
 Cryptantha glomeriflora  
 Cryptantha nubigena  
 Cymopterus cinerarius  
 Draba lemmonii (var. *incrassata*)  
 D. oligosperma var. *subsessilis*  
 D. stenoloba var. *ramosa*  
 Erigeron petiolaris  
 E. pygmaeus  
 Eriogonum rosense  
 Gentianopsis holopetala  
 Gentiana newberryi  
 Geum canescens  
 Galium hypotrichium ssp. *hypotrichium*  
 Haplopappus apargioides  
 Hieracium herridum  
 Ivesia lycopodioides  
 I. purpurascens ssp. *congdonii*  
 Juniperus occidentalis ssp. *australis*  
 Kalmia microphylla  
 Ledum glandulosum var. *californica*  
 Leucophysalis nana  
 Lupinus andersonii  
 L. caudatus ssp. *montigenus*  
 L. confertus  
 L. hypolasius  
 L. meionanthus  
 L. caudatus ssp. *montigenus*  
 L. sellulus var. *lobbii*  
 L. tegeticulatus (breweri) *bryoides*  
 Luzula divaricata  
 Mimulus coccineus  
 Penstemon davidsonii var. *davidsonii*  
 Pinus jeffreyi  
 P. monticola  
 Polygonum douglasii var. *latifolia*  
 Raillardella argentea  
 Rhamnus rubra ssp. *rubra*  
 Scirpus clementis  
 Senecio fremontii var. *occidentalis*  
 S. scorzonella  
 Sisyrinchium idahoense var. *occidentale*  
 Symphoricarpos parishii  
 Trifolium andersonii ssp. *andersonii*

Additionally, work done by Goodrich (1981) in central Nevada has shown that several other Pacific cordilleran plants extend

their ranges far into the Intermountain Region. These plants, also found extending eastward within the Walker River basin, include *Artemisia rothrockii*, *Carex helleri*, *Silene sargentii*, *Astragalus whitneyi* (see Reveal 1979) and *Astragalus purshii* var. *tinctus* (see Barnaby 1964). *Silene sargentii* has been listed as endemic to the Sierra Nevada. However, the type collection, as given by Hitchcock and Maguire (1947), is from Table Mountain of the Monitor Range in central Nevada.

The eastward distribution of these Sierran plants may be enhanced by the very eastern exposures of the Sierran granodiorites. These granites can be found as far east as the Wasuk Range (Bateman 1967). However, the most likely factor enhancing the migration of these Sierran plants is the abundance of montane and alpine habitats found eastward into the Intermountain Region. The floristic components of the Sweetwater Mountains point to this eastward migration.

The Sweetwaters, situated between the Sierra and Intermountain floristic regions, are regarded as belonging to the Intermountain flora (Cronquist et al. 1972). Sierra conifer forests are extensive on the Sweetwaters, especially toward the southern end. The timberline vegetation is dominated solely by *Pinus albicaulis*, a Sierran characteristic.

Using the information provided in Table 1, Sorenson's index of similarity (Billings 1978) between the Sierra and Sweetwaters can be determined with regard to floristic elements in both the alpine and the montane conifer forests. These are calculated to be 90 and 93 percent, respectively. This indicates the Sweetwater Mountains to be more affiliated, floristically, with the Sierra than previously thought.

However, it might be considered that the east slope of the Sierra, within the Walker River drainage, being influenced by Intermountain vegetation, is bound to yield a high index of similarity to the Sweetwaters. In other words, the whole of the upper Walker could be considered "Intermountain" with regard to vegetational composition. This is reinforced by the fact that the Walker River portion of the Sierra does lack typical "understory" brush vegetation that is found just to the north in the Carson River drainage. *Arctostaphylos patula*, *Ceanothus cordulatus*

and *C. prostratus* have not been found here (or are at least not abundant) and *A. nevadensis* was found only twice in very small populations. Instead, the dominant brush cover consists of *Purshia tridentata*, *Ceanothus velutinus*, *Artemisia tridentata* ssp. *vaseyana*, and *Symphoricarpos oreophilus*.

In comparing all the upper Walker River flora with the flora of central Nevada (Goodrich 1981), both floras being just about equal in number of taxa, approximately a 50 percent similarity can be determined. The Sweetwaters could, therefore, be easily considered as part of the east slope Sierran flora. Aside from the high indices of similarity, the Sweetwaters are dominated by many Sierra or Pacific cordillera plant species; *Lupinus hypolasius*, *Chrysothamnus parryi* ssp. *monocephalus*, and *Draba oligosperma* var. *subsessilis* at the highest elevations, and *Pinus jeffreyi* and *P. contorta* var. *murrayana* at the lower elevations.

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TABLE 1. Checklist of the vascular flora of the upper Walker River. For the columns under the heading of "AREA": N=Sierra Nevada; S=Sweetwater Mountains; W=Wellington Hills; M=Masonic Hills, Bodie Hills, Pine Grove Hills, and the southwest slopes of the Pine Nut Range. For the columns under the heading of "HABITAT": 1=riparian; 2=low elevation sagebrush-grass zone; 3=pinyon-juniper woodland; 4=high elevation sagebrush-grass zone; 5=Jeffrey pine-white fir forests; 6=red fir forests; 7=lodgepole pine forests; 8=whitebark pine forests; 9=alpine zone (see Billings 1951, Lavin 1981, for a general description of these). An X indicates the plant has been observed in the field or by herbarium specimen; an O indicates the plant has a probable distribution within the area due to information obtained in the literature.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<b>ADIANTACEAE - PTERIDOPHYTA</b>													
<i>Aspidotis</i>													
<i>densa</i> (Brack.) Lellinger	X								X		X		
<i>Cheilanthes</i>													
<i>gracillima</i> D.C. Eat.	X	X					X		X		X		
<i>Cryptogramma</i>													
<i>crispa</i> (L.) R. Br. ex Hook.													
ssp. <i>acrostichoides</i> (R. Br.) Hulten	X										O	X	X
<i>Pellaea</i>													
<i>breweri</i> D.C. Eat.	X	X		O					O		O	X	X
<i>bridgesii</i> Hook.	X	X							X		X	X	X
<b>ASPLENIACEAE</b>													
<i>Athyrium</i>													
<i>distentifolium</i> Tausch ex Opiz													
var. <i>americanum</i> (Butters) Boivin	X										X		
<i>Cystopteris</i>													
<i>fragilis</i> (L.) Bernh.	X	X		X			X		X	X	X	X	X
<i>Woodsia</i>													
<i>oregana</i> D.C. Eat.			X				X						
<i>scopolina</i> D.C. Eat.	X	X							X		X	X	X
<b>DENNSTAEDTIACEAE</b>													
<i>Pteridium</i>													
<i>aquilinum</i> (L.) Kuhn													
var. <i>pubescens</i> Underwood	X								X		X	X	
<b>EQUISETACEAE</b>													
<i>Equisetum</i>													
<i>arvense</i> L.	X	X			X	X		X		X	X	X	O
<i>hyemale</i> L.													
var. <i>affine</i> (Engelm.) A.A. Eat.	X				X			X					
<i>laevigatum</i> A. Braun	X	X	X	X	X		X	X	X	X			

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
ISOETACEAE													
<i>Isoetes</i>													
<i>bolanderi</i> Engelm.													
var. <i>bolanderi</i>	X				X						X	X	X
MARSILEACEAE													
<i>Marsilea</i>													
<i>vestita</i> Hook. & Grev.	X				X				X				
OPHIOGLOSSACEAE													
<i>Botrychium</i>													
<i>lunaria</i> (L.) Sw.													
var. <i>minganese</i> (Victorin) Dole	O										O		
<i>simplex</i> E. Hitchcock	X											X	
SELAGINELLACEAE													
<i>Selaginella</i>													
<i>watsonii</i> Underwood	X	X									X	X	X
CUPRESSACEAE - PINOPHYTA													
<i>Juniperus</i>													
<i>communis</i> L.	X										X	X	
<i>occidentalis</i> Hook.													
ssp. <i>australis</i> Vasek	X	X	X				X	X	X	X	X	X	
<i>osteosperma</i> (Torr.) Little		X	X	X			X	X	X				
EPHEDRACEAE													
<i>Ephedra</i>													
<i>nevadensis</i> S. Wats.		X	X	X		X	X						
<i>viridis</i> Coville	X	X	X	X		X	X	X	X				
PINACEAE													
<i>Abies</i>													
<i>concolor</i> (Gord. & Glend.) Hildebr.	X	X			X	X		X	X	X	X	X	
<i>magnifica</i> A. Murr.	X							X	X	X			
<i>Pinus</i>													
<i>albicaulis</i> Engelm.	X	X									X	X	X
<i>contorta</i> Dougl. ex Loud.													
var. <i>murrayana</i> (Grev. & Balf.) Engelm.	X	X	O			X	O	X	X	X	X	X	X
<i>flexilis</i> James	X	X	O				O				X	X	
<i>jeffreyi</i> Grev. & Balf.	X	X	X	X			X	X	X				
<i>monophylla</i> Torr. & Frem.	X	X	X	X			X	X	X				
<i>monticola</i> Dougl. ex D. Don	X		X				X		X	X			
<i>Tsuga</i>													
<i>mertensiana</i> (Bong.) Carr.	X									X	X	X	
ACERACEAE - ANTHOPHYTA													
<i>Acer</i>													
<i>glabrum</i> Torr.													
var. <i>torreyi</i> (Greene) Smiley	X								X	X	X		
ALISMATACEAE													
<i>Sagittaria</i>													
<i>cuneata</i> Sheldon				O	O	O							
AMARANTHACEAE													
<i>Amaranthus</i>													
<i>albus</i> L.		X	X			X							
<i>blitoides</i> S. Wats.	X	X	X	X		X	X	X	X				
<i>retroflexus</i> L.			X	X		X							
APIACEAE													
<i>Angelica</i>													
<i>breweri</i> Gray	X								X		O		
<i>lineariloba</i> Gray	X	X	X					X	X		X	X	

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Berula</i>													
<i>erecta</i> (Huds.) Coville			X		X	X							
<i>Cicuta</i>													
<i>douglasii</i> (DC.) Coult. & Rose			X	X	X	X							
<i>Conium</i>													
<i>maculatum</i> L.	X	X			X	X							
<i>Cymopterus</i>													
<i>cinerarius</i> Gray	X	X										X	X
<i>globosus</i> (S. Wats.) S. Wats.		X		X		X	X						
<i>panamintensis</i> Coult. & Rose													
var. <i>panamintensis</i>			O					?					
<i>Heracleum</i>													
<i>lanatum</i> Michx.	X	X			X				X		X		
<i>Ligusticum</i>													
<i>grayii</i> Coult. & Rose	X								X	X	X	X	X
<i>Lomatium</i>													
<i>dissectum</i> (Nutt.) M. & C.													
var. <i>multifidum</i> (Nutt.) M. & C.	X	X	X	X		X	X	X	X		X		
<i>foeniculaceum</i> (Nutt.) Coult. & Rose													
ssp. <i>macdougalii</i> (Coult. & Rose) Theobald				X		X	X						
<i>nevadense</i> (S. Wats.) Coult. & Rose													
var. <i>nevadense</i>	X	X	X	X		X	X	X	X		X	X	
var. <i>parishii</i> (Coult. & Rose) Jepson	X	X	X	X		X	X	X	X				
<i>plummerae</i> (Coult. & Rose) Coult. & Rose													
var. <i>sonnei</i> (Coult. & Rose) Jepson				X				X					
<i>Osmorhiza</i>													
<i>chilensis</i> Hook. & Arn.	X	X			X				X		X		
<i>occidentalis</i> (Torr. & Gray) Torr.	X	X		X	X	X	X	X			X	X	
<i>Perideridia</i>													
<i>bolanderi</i> (Gray) A. Nels. & J.F. Macbride													
ssp. <i>bolanderi</i>	X	X	X	X			X		X		X	X	X
<i>lemmonii</i> (Coult. & Rose) Chuang & Const.	X	X		O					X	X			
<i>parishii</i> (Coult. & Rose) A. Nels.													
ssp. <i>latifolia</i> (Gray) Chuang & Const.	X									O	O	X	X
<i>Podistera</i>													
<i>nevadensis</i> (Gray) S. Wats.	O												O
<i>Pteryxia</i>													
<i>terebinthina</i> (Hook.) Coult. & Rose													
var. <i>californica</i> (Coult. & Rose) Mathias	X	X	X	X			X	X	X		X		
<i>Sphenosciadium</i>													
<i>capitellatum</i> Gray	X	X	X	X	X	X	X	X	X	X	X	X	X
APOCYNACEAE													
<i>Apocynum</i>													
<i>androsaemifolium</i> L.													
ssp. <i>pumilum</i> (Gray) Boivin	X	X							X	X	X		
<i>X medium</i> Greene	X			O					O	X			
ASCLEPIADACEAE													
<i>Asclepias</i>													
<i>cryptoceras</i> S. Wats.													
ssp. <i>cryptoceras</i>				O					O				
ssp. <i>davisii</i> (Woods.) Woods.			X	X	X				X	X			
<i>fascicularis</i> Dcne.	X	X							X	X			
<i>speciosa</i> Torr.	X	X	X	X			X	X	X				
ASTERACEAE													
<i>Achillea</i>													
<i>millefolium</i> L.													
var. <i>alpicola</i> (Rydb.) Garrett	X	X		X					X	X		X	X
var. <i>lanulosa</i> (Nutt.) Piper	X	X	X	X	X		X		X				



Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Agoseris</i>													
<i>aurantiaca</i> (Hook.) Greene	X	X			X				X		X		
<i>elata</i> (Nutt.) Greene	X	X		X	X				X	X	X	X	X
<i>glauca</i> (Pursh) Raf.													
var. <i>monticola</i> (Greene) Cronquist	X	X									X	X	X
var. <i>laciniata</i> (D.C. Eat.) Smiley	X	X	X	X		X	X	X	X				
<i>Ambrosia</i>													
<i>acanthicarpa</i> Hook.	X	X	X	X		X	X						
<i>Anisocoma</i>													
<i>acaulis</i> Torr. & Gray			X				X						
<i>Antennaria</i>													
<i>alpina</i> (L.) Gaertn.													
var. <i>media</i> (Greene) Jepson	X	X										X	X
<i>dimorpha</i> (Nutt.) Torr. & Gray	X	X	X	X		X	X		X		O		
<i>microphylla</i> Rydb.	X	X	X				X		X		X	X	X
<i>umbrinella</i> Rydb.	X	X										X	X
<i>Arnica</i>													
<i>chamissonis</i> Less.													
ssp. <i>foliosa</i> (Nutt.) Maguire													
var. <i>andina</i> (Nutt.) Ediger & Barkley	X	X	X			X	X		X	X	X	X	X
ssp. <i>foliosa</i> (Nutt.) Maguire													
var. <i>incana</i> (Gray) Hulten	X	X				X	X		X		X	X	
<i>cordifolia</i> Hook.													
var. <i>cordifolia</i>	X	X										X	
<i>diversifolia</i> Greene	X	X							X				
<i>longifolia</i> D.C. Eat.	X	X							X		X	X	X
<i>mollis</i> Hook.	X	X								X	X	X	
<i>nevadensis</i> Gray	X	X										X	X
<i>parryi</i> Gray													
var. <i>sonnei</i> (Greene) Cronquist	O											O	O
<i>sororia</i> Greene	X	X		O			X	X	X				
<i>Artemisia</i>													
<i>arbuscula</i> Nutt.	X	X	X	X			X	X	X		X	X	X
<i>cana</i> Pursh	X	X				X	X	X	X		X	X	X
<i>douglasiana</i> Bess.	X	X	X	X			X	X					
<i>dracunculus</i> L.	X	X	X	X			X	X	X	X			X
<i>ludoviciana</i> Nutt.													
ssp. <i>incompta</i> (Nutt.) Keck	X	X		X		X	X		X		X	X	X
ssp. <i>ludoviciana</i>	X	X					X		X				
<i>norvegica</i> Fries													
var. <i>saxitalis</i> (Bess.) Hook.	X										X	X	X
<i>nova</i> A. Nels.													
		X	X	X			X	X					
<i>rothrockii</i> Gray	X	X										X	X
<i>spinescens</i> D.C. Eat.			X	O			X						
<i>tridentata</i> Nutt.													
ssp. <i>vaseyana</i> (Rydb.) Beetle	X	X	X	X			X		X		X	X	
ssp. <i>wyomingensis</i> Beetle & Young			X	X	X		X	X					
ssp. <i>tridentata</i>	X	X	X	X			X	X	X	X		X	X
<i>Aster</i>													
<i>ascendens</i> Lindl. in Hook.	X	X		O		X	X						
<i>alpigenus</i> (Torr. & Gray) Gray													
ssp. <i>andersonii</i> (Gray) Onno	X	X				X					X	X	X
<i>campestris</i> Nutt.													
var. <i>bloomeri</i> Gray	X	X		O					O	X			
<i>eatonii</i> (Gray) T.J. Howell	X	X				X	X		X				
<i>integrifolius</i> Nutt.	X					X					X	X	X
<i>occidentalis</i> (Nutt.) Torr. & Gray													
var. <i>occidentalis</i>	X	X	X	X		X	X		X	X	X	X	X
<i>scopulorum</i> Gray		X	X	X			X	X	X				

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Balsamorhiza</i>													
<i>hookeri</i> (Hook.) Nutt.		X	X	X		X	X		X				
<i>sagittata</i> (Pursh) Nutt.	X	X	X	X		X	X		X			X	
<i>Bidens</i>													
<i>cernua</i> L.			X		X	X							
<i>Brickellia</i>													
<i>grandiflora</i> (Hook.) Nutt.													
var. <i>petiolaris</i> Gray	X											X	
<i>microphylla</i> (Nutt.) Gray			X	X		X							
<i>oblongifolia</i> Nutt.													
var. <i>linifolia</i> (D.C. Eat.) B.L. Robins.			X	X	X	X	X						
<i>Chaenactis</i>													
<i>alpigena</i> C.W. Sharsmith	X												X X
<i>douglasii</i> (Hook.) Hook. & Arn.													
var. <i>rubricaulis</i> (Rydb.) Ferris	X	X	X	X		X	X	X	X			X	X
<i>nevadensis</i> (Kellogg) Gray	X	X											X X
<i>xantiana</i> Gray				X		X							
<i>Chrysothamnus</i>													
<i>nauseosus</i> (Pall.) Britton													
ssp. <i>consimilis</i> (Greene) Hall & Clem.	X	X	X	X		X	X	X					
ssp. <i>albicaulis</i> (Nutt.) Hall & Clem.	X	X		X			X		X			X	
ssp. <i>hololeucus</i> (Gray) Hall & Clem.				O			O	O					
<i>parryi</i> (Gray) Greene													
ssp. <i>monocephalus</i> (Nels. & Kenn.) Hall & Clem.	X	X											X X
ssp. <i>nevadensis</i> (Gray) Hall & Clem.		X	O			X							
<i>viscidiflorus</i> (Hook.) Nutt.													
ssp. <i>puberulus</i> (D.C. Eat.) Hall & Clem.	X	X	X	X		X	X	X	X			X	X X
ssp. <i>viscidiflorus</i>	X	X	X	X		X	X		X				
<i>Cichorium</i>													
<i>intybus</i> L.	X	X				X	X	X					
<i>Cirsium</i>													
<i>andersonii</i> (Gray) Petrak	X	X				X			X			X	X X
<i>condonii</i> Moore & Frankton	X	X							X				
<i>eatonii</i> (Gray) B.L. Robins.	X												X X
<i>pastoris</i> J.T. Howell	X	X	X	X				X	X				
<i>tioganum</i> (Congd.) Petrak	X	X	X	X		X		X	X			X	X X
<i>utahense</i> Petrak	X	X	O					X	X				X
<i>vulgare</i> (Savi) Tenore	X	X	X	X				X	X				
<i>Conyza</i>													
<i>canadensis</i> (L.) Cronquist													
var. <i>glabrata</i> (Gray) Cronquist	X	X	X	X		X		X	X				
<i>Crepis</i>													
<i>acuminata</i> Nutt.													
ssp. <i>acuminata</i>	X	X		O				X	X	X		X	
<i>intermedia</i> Gray	X	X	X	X				X		X		X	
<i>modocensis</i> Greene													
ssp. <i>subacaulis</i> (Kell.) Babcock & Stebbins	X	X		O					O			X	X
<i>nana</i> Richards.													
ssp. <i>ramosa</i> Babcock & Stebbins	X												X X
ssp. <i>nana</i>	X	X											X X
<i>occidentalis</i> Nutt.													
ssp. <i>pumila</i> (Rydb.) Babcock & Stebbins	X	X	X	X		X	X		X			X	
ssp. <i>occidentalis</i>	X	X	X	X		X	X	X	X				
ssp. <i>conjuncta</i> (Jepson) Babcock & Stebbins	X	X	X	X		X	X	X	X			X	
<i>runcinata</i> (James) Torr. & Gray													
ssp. <i>hallii</i> Babcock & Stebbins				X		X	X						
<i>Dugaldia</i>													
<i>hoopesii</i> (Gray) Rydb.	X	X		O		X			X	X	X	X	X X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Eatonella</i>													
<i>nivea</i> (D.C. Eat.) Gray	X	X		X			X	X					
<i>Erigeron</i>													
<i>aphanactis</i> (Gray) Greene							X	X	X				
var. <i>aphanactis</i>	X	X	X	X			X	X	X				
<i>barbellulatus</i> Greene	X									O	X	X	X
<i>bloomeri</i> Gray													
var. <i>bloomeri</i>			X	X	X		X	X					
<i>breweri</i> Gray													
var. <i>breweri</i>	X								X		X		
var. <i>porphyreticus</i> (M.E. Jones) Cronquist	X	X	X	X			X	X	X			X	
<i>clokeyi</i> Cronquist	X	X		X			X	X	X		X	X	X
<i>compositus</i> Pursh													
var. <i>glabratus</i> Macoun	X	X		X					X	X	X	X	X
<i>coulteri</i> Porter	X	X		O		X			X		X	X	
<i>divergens</i> Torr. & Gray	X	X							X		X	X	
<i>eatonii</i> Gray													
ssp. <i>plantagineus</i> (Greene) Cronquist	X	X	X	X		X	X	X	X		X		
<i>lonchophyllus</i> Hook.	X	X	X	O		X	X	X			O	O	
<i>nevadincola</i> Blake	X	X	X	X			X				X		
<i>peregrinus</i> (Pursh) Greene													
ssp. <i>callianthemus</i> (Greene) Cronquist													
var. <i>angustifolius</i> (Gray) Cronquist	X	X		O		X					X	X	X
ssp. <i>callianthemus</i> (Greene) Cronquist													
var. <i>hirsutus</i> Cronquist	X					X					X	X	
<i>petiolaris</i> Greene	X	X										X	X
<i>pygmaeus</i> (Gray) Greene	X	X										X	X
<i>tener</i> (Gray) Gray				X					X				
<i>vagus</i> Payson	X											X	X
<i>Eriophyllum</i>													
<i>lanatum</i> (Pursh) Forbes													
var. <i>integrifolium</i> (Hook.) Smiley	X	X	X	X			X	X	X		X	X	X
<i>Eupatorium</i>													
<i>occidentale</i> Hook.	X	X	X	X			X	X	X	X	X	X	
<i>Glyptopleura</i>													
<i>marginata</i> D.C. Eat.				X		X	X						
<i>Gnaphalium</i>													
<i>palustre</i> Nutt.	X	X				X			X		X		X
<i>microcephalum</i> Nutt.													
var. <i>thermale</i> (E. Nels.) Cronquist				X		X							
<i>Grindelia</i>													
<i>squarrosa</i> (Pursh) Dunal													
var. <i>squarrosa</i>			X	X	X		X	X					
<i>Gutierrezia</i>													
<i>sarothrae</i> (Pursh) Britt. & Rusby				X			X						
<i>Haplopappus</i>													
<i>acaulis</i> (Nutt.) Gray	X	X	X	X		X	X	X	X		X	X	
<i>apargioides</i> Gray	X	X		O				O			X	X	X
<i>bloomeri</i> (Hook.) Gray	X	X									X		
<i>lanceolatus</i> (Hook.) Torr. & Gray													
var. <i>lanceolatus</i>	X	X				X		X	X				
<i>macronema</i> Gray	X	X										X	X
<i>racemosus</i> (Nutt.) Torr.													
ssp. <i>glomeratus</i> (Nutt.) Hall				O				O					
<i>suffruticosus</i> (Nutt.) Gray	X	X		O				O			X	X	X
<i>uniflorus</i> (Hook.) Torr. & Gray													
ssp. <i>uniflorus</i>	X	X				X	X	X					

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Helianthus</i>													
<i>annuus</i> L.	X	X					X		X				
<i>Heterotheca</i>													
<i>breweri</i> AGray Shinnery	X								X		X	X	
<i>Hieracium</i>													
<i>albiflorum</i> Hook.	X				X				X	O	X		
<i>gracile</i> Hook.	X										X	X	
var. <i>gracile</i>	X										X	X	
<i>horridum</i> Fries	X	X							X		X	X	
<i>Hulsea</i>													
<i>algida</i> Gray	X	X		O								X	X
<i>heterochroma</i> Gray	O								O				
<i>Hymenopappus</i>													
<i>filifolius</i> Hook.													
var. <i>nanus</i> (Rydb.) B.L. Turner		X	X	X		X	X						
<i>Hymenoxys</i>													
<i>cooperi</i> (Gray) Cockerell													
var. <i>canescens</i> (D.C. Eat.) Parker	X	X										X	X
<i>Iva</i>													
<i>axillaris</i> Pursh	X	X	X	X		X	X	X					
<i>Lactuca</i>													
<i>serriola</i> L.	X	X	X	X		X	X		X				
<i>tartarica</i> (L.) C.A. May													
sp. <i>pulchella</i> (Pursh) Stebbins				X			X						
<i>Layia</i>													
<i>glandulosa</i> (Hook.) Hook. & Arn.													
ssp. <i>glandulosa</i>		X	X	X		X	X						
<i>Leucanthemum</i>													
<i>vulgare</i> Lam.	X	X				X	X		X				
<i>Machaeranthera</i>													
<i>canescens</i> (Pursh) Gray			X	X			X						
<i>shastensis</i> Gray													
var. <i>montana</i> (Greene) Cronquist & Keck	X	X									X	X	X
var. <i>gossophylla</i> (Piper) Cronquist & Keck	X	X		X				X	O	X		X	
<i>Madia</i>													
<i>glomerata</i> Hook.	X	X							X				
<i>gracilis</i> (Sm.) Keck				X			X						
<i>Malacothrix</i>													
<i>sonchoides</i> (Nutt.) Torr. & Gray													
var. <i>torreyi</i> (Gray) E. Williams				X		X							
<i>Microseris</i>													
<i>lindleyi</i> (DC.) Gray		X	X				X	X					
<i>Nothocalais</i>													
<i>alpestris</i> (Gray) Chambers	O										O	O	O
<i>Psilocarphus</i>													
<i>brevissimus</i> Nutt.													
var. <i>brevissimus</i>			X				X						
<i>Raillardella</i>													
<i>argentea</i> (Gray) Gray	X	X									X	X	X
<i>scaposa</i> (Gray) Gray	X											X	
<i>Senecio</i>													
<i>canus</i> Hook.	X	X	X	X			X	X	X		X	X	X
<i>cymbalarioides</i> Beuk	X											X	X
<i>fremontii</i> Torr. & Gray													
var. <i>occidentalis</i> Gray	X	X									X	X	X
<i>hydrophilus</i> Nutt.	X		X	O		X	X				X		
<i>integerrimus</i> Nutt.													
var. <i>exaltatus</i> (Nutt.) Cronquist	X	X	X	X			X	X	X	X	X	X	
<i>multilobatus</i> Torr. & Gray ex Gray	X	X	X	X		X	X	X	X		X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>pattersonensis</i> Hoover	X	X										X	X
<i>scorzonella</i> Greene	X	X										X	X
<i>serra</i> Hook. var. <i>serra</i>	X	X	X	O	X	X	X	X	X			X	X
<i>spartioides</i> Torr. & Gray	X	X							X			X	X
<i>streptanthifolius</i> Greene	X								X			X	X
<i>triangularis</i> Hook.	X	X	X		X				X	X	X	X	X
<i>wernerifolius</i> (Gray) Gray	X	X										X	X
<i>Solidago</i> <i>canadensis</i> L. var. <i>salebrosa</i> (Piper) M.E. Jones	X								X				
<i>multiradiata</i> Ait.	X	X										X	X
<i>occidentalis</i> (Nutt.) Torr. & Gray			X	X	X	X							
<i>spectabilis</i> (D.C. Eat.) Gray			X	O	X	X							
<i>Sonchus</i> <i>asper</i> (L.) Hill	X	X	X	X	X	X	X	X					
<i>Sphaeromeria</i> <i>cana</i> (D.C. Eat.) Heller	X	X										X	X
<i>potentilloides</i> (Gray) Heller var. <i>potentilloides</i>				X				X					
<i>Stephanomeria</i> <i>exigua</i> Nutt. ssp. <i>coronaria</i> (Greene) Gottlieb	X	X	O									X	X
ssp. <i>exigua</i>	X	X	X	X	X	X	X						
<i>spinosa</i> (Nutt.) S. Tomb	X	X	X	X	X	X	X	X					
<i>Taraxacum</i> <i>officinale</i> Weber	X	X	X	X	X	X	X	X	X			X	X
<i>Tetradymia</i> <i>axillaris</i> A. Nels. var. <i>longispina</i> (M.E. Jones) Strother				X	X								
<i>canescens</i> DC.	X	X	X	O	X	X	X	X	X			X	X
<i>glabrata</i> Torr. & Gray	X	X	X	X	X	X	X						
<i>spinosa</i> Hook. & Arn.			X	X	X	X							
<i>tetrameres</i> (Blake) Strother			O		O								
<i>Townsendia</i> <i>condensata</i> Parry ex Gray		X											X
<i>scapigera</i> D.C. Eat.		X	O					X				X	X
<i>Tragopogon</i> <i>dubius</i> Scop.	X	X	X	X	X	X	X	X					
<i>Wyethia</i> <i>mollis</i> Gray	X	X	X	X			X	X	X	X	X	X	X
BETULACEAE													
<i>Alnus</i> <i>incana</i> (L.) Moench ssp. <i>tenuifolia</i> (Nutt.) Breitung	X						X	X					
BORAGINACEAE													
<i>Amsinckia</i> <i>tessellata</i> Gray			X	X	X	X	X						
<i>Cryptantha</i> <i>affinis</i> (Gray) Greene	X	X					X	X	X	O	O		
<i>circumscissa</i> (Hook. & Arn.) Johnston var. <i>hispida</i> (J.F. Macbr.) Johnston	X	X	X	X	X	X	X	X	X			X	X
var. <i>circumscissa</i>	X	X	X	X	X	X	X	X	X			X	X
<i>confertiflora</i> (Greene) Payson			X	X	X	X	X						
<i>echinella</i> Greene	X	X	X	X	X	X	X	X	X			X	
<i>flavoculata</i> (A. Nels.) Payson	X	X	X	X	X	X	X	X	X			X	
<i>glomeriflora</i> Greene	X	X	X				X	X	X			X	X
<i>humilis</i> (Gray) Payson var. <i>humilis</i>	X	X	X				X						

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>jamesii</i> (Torr.) Payson													
var. <i>abortiva</i> (Greene) Payson				X				X					
<i>nubigena</i> (Greene) Payson	X	X										X	X
<i>pterocarya</i> (Torr.) Greene													
var. <i>pterocarya</i>	X	X	X	X		X	X	X	X				
<i>torreyana</i> (Gray) Greene													
var. <i>torreyana</i>	X	X		O				X	X				
var. <i>pumila</i> (Heller) Johnston			X	X				X					
<i>watsonii</i> (Gray) Greene	X	X	X	X		X	X	X	X		X	X	
sp. nov.	X	X		X									X
<i>Hackelia</i>													
<i>floribunda</i> (Lehm.) Johnston				O		O							
<i>micrantha</i> (Eastw.) J.L. Gentry	X	X		O	X		X	X	X		X	X	
<i>Lappula</i>													
<i>redowskii</i> (Hornem.) Greene													
var. <i>redowskii</i>	X	X	X	X			X	X	X		X	X	
<i>Mertensia</i>													
<i>oblongifolia</i> (Nutt.) G. Don													
var. <i>nevadensis</i> (A. Nels.) L.O. Williams	X	X	X	X			X	X	X		X	X	X
<i>Pectocarya</i>													
<i>setosa</i> Gray		X	X	X		X	X						
<i>Plagiobothrys</i>													
<i>hispidus</i> Gray	X	X	X	X			X	X	X		X	X	
<i>jonesii</i> Gray		X	X	X		X	X						
<i>kingii</i> (S. Wats.) Gray													
var. <i>harknessii</i> (Greene) Jepson	X	X	X	X			X					X	
var. <i>kingii</i>		X	X	X		X	X						
<i>scouleri</i> (Hook. & Arn.) Johnston													
var. <i>scouleri</i>	X	X	X	X	X		X	X	X		X		
<i>Tiquilia</i>													
<i>nuttallii</i> (Benth. ex Hook.) Richards.				X		X							
BRASSICACEAE													
<i>Anelsonia</i>													
<i>eurycarpa</i> (Gray) Macbr. & Payson	X	X											X
<i>Arabis</i>													
<i>bodiensis</i> Rollins	X	X		X			X	X			X	X	
<i>cobrensis</i> M.E. Jones		X	X	X			X	X	X				
<i> davidsonii</i> Greene	X					X		X			X		
<i>divaricarpa</i> A. Nels.	X	X	X				X	X			X	X	X
<i>drummondii</i> Gray	X	X		O				O	X		X		
<i>fernaldiana</i> Rollins													
var. <i>stylosa</i> (S. Wats.) Rollins				X				X					
<i>glabra</i> (L.) Bernh.	X	X				X			X		X		
<i>hirsuta</i> (L.) Scop.													
var. <i>glabrata</i> Torr. & Gray	X	X							X	X	X		
<i>holboellii</i> Hornem.													
var. <i>pendulocarpa</i> (A. Nels.) Rollins	X	X									X	X	X
var. <i>pinetorum</i> (Tidestrom) Rollins	X	X	X	X			X	X	X		X		
var. <i>retrofracta</i> (Grahm.) Rydb.	X	X	X	X			X	X	X			X	
var. <i>holboellii</i>				X			X						
<i>inyoensis</i> Rollins	X	X										X	X
<i>lemmonii</i> S. Wats.													
var. <i>lemmonii</i>	X	X										X	X
var. <i>depauperata</i> (A. Nels. & Kenn.) Rollins	O												O
<i>lyallii</i> S. Wats.													
var. <i>lyallii</i>	X	X		O								X	
<i>platysperma</i> Gray													
var. <i>platysperma</i>	X	X		X				X	X		X	X	X
var. <i>howellii</i> (S. Wats.) Jepson	X	X									X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>puberula</i> Nutt.	X	X	X	X		X	X	X	X				X
<i>pulchra</i> M.E. Jones ex S. Wats.													
var. <i>pulchra</i>	X	X	X	X			X		X				
var. <i>gracilis</i> M.E. Jones			X	X			X	X					
<i>sparsiflora</i> Nutt.													
var. <i>subvillosa</i> (S. Wats.) Rollins	X	X	X	X			X	X	X				X
var. <i>sparsiflora</i>	X	X	X	X			X	X	X				X
<i>Barbarea</i>													
<i>orthoceras</i> Ledeb.													
var. <i>dolichocarpa</i> Fern.	X	X	X	X	X	X	X		X			X	
var. <i>orthoceras</i>	X	X	X	X	X	X	X		X			X	X X
<i>Capsella</i>													
<i>bursa-pastoris</i> (L.) Medic.	X	X	X	X			X	X	X				
<i>Cardamine</i>													
<i>breweri</i> S. Wats.													
var. <i>breweri</i>	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Cardaria</i>													
<i>pubescens</i> (C.A. Mey) Jarmolenko				O				O					
<i>Caulanthus</i>													
<i>pilosus</i> S. Wats.				X			X						
<i>Descurainia</i>													
<i>californica</i> (Gray) O.E. Schulz	X	X	X	X			X		X	X	X	X	X
<i>pinnata</i> (Walt.) Britt.													
ssp. <i>filipes</i> (Gray) Detling	X	X	X	X			X	X	X		X		
ssp. <i>halictorum</i> (Cockerell) Detling				X			X						
ssp. <i>menziesii</i> (DC.) Detling	X	X	X	X			X		X				
<i>richardsonii</i> (Sweet) O.E. Schulz													
ssp. <i>incisa</i> (Engelm.) Detling				O					O				
ssp. <i>viscosa</i> (Rydb.) Detling	X	X								O	O	O	X X
<i>sophia</i> (L.) Webb ex Prantl	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Draba</i>													
<i>albertina</i> Greene	X	X		O	X							X	X X
<i>breweri</i> S. Wats.	X	X		O									X X
<i>densifolia</i> Nutt.	X	X	X	X			X	X	X			X	X X
<i>douglasii</i> Gray													
var. <i>crockeri</i> (Lemmon) C.L. Hitchc.				X			X	X					
<i>lemmonii</i> S. Wats.													
var. <i>lemmonii</i>	X												X X
var. <i>incrassata</i> Rollins		X											X X X
<i>oligosperma</i> Hook.													
var. <i>subsessilis</i> (S. Wats.) O.E. Schulz	X	X											X
var. <i>oligosperma</i>	X	X											X X
<i>paysonii</i> J.F. Macbride	O											O	O O
<i>quadricostata</i> Rollins			X	X X			X	X					
<i>stenoloba</i> Ledeb.													
var. <i>ramosa</i> C.L. Hitchcock	X	X			X							X	X X
<i>Erysimum</i>													
<i>argillosum</i> (Greene) Rydb.				O				O					
<i>capitatum</i> (Dougl.) Greene	X	X	X	X			X	X	X		X		
<i>perenne</i> (S. Wats. ex Coville) Abrams	X	X	X						X		X	X	X
<i>repandum</i> L.			X	X			X	X					
<i>Hymenolobus</i>													
<i>procumbens</i> (L.) Nutt. ex Torr. & Gray				X			X						
<i>Lepidium</i>													
<i>lasiocarpum</i> Nutt.				X			X	X					
<i>perfoliatum</i> L.	X	X	X	X			X	X	X	X			
<i>virginicum</i> L.													
var. <i>pubescens</i> (Greene) C.L. Hitchc.	X	X	X	X			X	X	X	X			

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Lesquerella</i>													
<i>kingii</i> S. Wats.													
var. <i>kingii</i>	X	X	X	X		X	X	X	X		X	X	X
<i>Nasturtium</i>													
<i>officinale</i> R. Br.	X	X	X	X	X		X		X				
<i>Phoenicautis</i>													
<i>cheiranthoides</i> Nutt.	X	X	X	X			X	X	X		X	X	X
<i>Polyctenium</i>													
<i>fremontii</i> (S. Wats.) Greene				X			X						
<i>Rorippa</i>													
<i>curvisiliqua</i> (Hook.) Bess. ex Britton	X	X			X						X	X	
<i>teres</i> (Michx.) R. Stuckey	X	X	X	X	X			X	X		X		
<i>Sisymbrium</i>													
<i>altissimum</i> L.	X	X	X	X		X	X		X				
<i>Stanleya</i>													
<i>pinnata</i> (Pursh) Britton													
var. <i>pinnata</i>			X	X	X		X	X					
<i>Streptanthus</i>													
<i>cordatus</i> Nutt. ex Torr. & Gray	O						O		O				
<i>oliganthus</i> Rollins	X	X		X			X	X	X				
<i>tortuosus</i> Kellogg													
var. <i>orbiculatus</i> (Greene) Hall	X										X	X	X
<i>Thelypodium</i>													
<i>crispum</i> Greene ex Payson	X	X	X	X		X	X	X	X				X
<i>integrifolium</i> (Nutt.) Endl.													
ssp. <i>complanatum</i> Al-Shehbaz			X	X		X	X	X					
<i>laciniatum</i> (Hook.) Endl.				X			X						
CACTACEAE													
<i>Opuntia</i>													
<i>polyacantha</i> Haw.													
var. <i>rufispina</i> (Engelm. & Bigelow) Benson	X	X	X	X		X	X	X	X		X	X	
<i>pulchella</i> Engelm.			X	X			X						
CALLITRICHACEAE													
<i>Callitriche</i>													
<i>heterophylla</i> Pursh emend. Darby													
var. <i>bolanderi</i> (Hegelm.) Fassett.				O					O				
<i>verna</i> L. emend. Kuetz.	X	X		X		X	X	X	X				
CAMPANULACEAE													
<i>Nemacladus</i>													
<i>rigidus</i> Cuiran			X	X		X	X						
<i>Porterella</i>													
<i>carosula</i> (Hook. & Arn.) Torr.	X					X				X	O	O	O
CAPPARIDACEAE													
<i>Cleomella</i>													
<i>hillmanii</i> A. Nels.				X		X							
<i>parviflora</i> Gray				X			X						
CAPRIFOLIACEAE													
<i>Lonicera</i>													
<i>involutrata</i> (Rich.) Banks ex Spreng.	X					X				X	X	X	X
<i>Sambucus</i>													
<i>caerulea</i> Raf.	X	X	X	X			X	X	X		X	X	
<i>racemosa</i> L.													
ssp. <i>pubens</i> (Michx.) House													
var. <i>microbotrys</i> (Rydb.) Kearney & Peebles	X	X									O	X	X
<i>Symphoricarpos</i>													
<i>longiflorus</i> Gray			X	X	X		X	X					



Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	I	2	3	4	5	6	7	8	9
<i>oreophilus</i> Gray var. <i>oreophilus</i> <i>parishii</i> Rydb.	X	X	X	X			X	X	X		X	X	X
				O				O					
CARYOPHYLLACEAE													
<i>Arenaria</i> <i>aculeata</i> S. Wats.	X	X	X	X			X	X	X		X	X	X
<i>Cerastium</i> <i>alpinum</i> L. <i>vulgatum</i> L.	X	X			X							X	X
	X	X			X	X	X			X			
<i>Minuartia</i> <i>nuttallii</i> (Pax) Briq. ssp. <i>fragilis</i> (Maguire & Holmgren) McNeill ssp. <i>gracilis</i> (B.L. Robins.) McNeill <i>obtusiloba</i> (Rydb.) House <i>rossii</i> (R. Br.) Graebn. <i>rubella</i> (Wahlenb.) Hiern				X			X		X			X	X
	X	X											O
	O	X											X
	X	X											X
<i>Pseudostellaria</i> <i>jamesiana</i> (Torr.) Weber & Hartman	X	X			X				X		X		
<i>Sagina</i> <i>saginoides</i> (L.) Karst.	X	X	O		X			O	X			X	
<i>Saponaria</i> <i>officinalis</i> L.	X	X				X	X						
<i>Silene</i> <i>bernardina</i> S. Wats. ssp. <i>maguirei</i> Bocquet var. <i>maguirei</i> ssp. <i>bernardina</i> <i>menziesii</i> Hook. ssp. <i>dorrii</i> (Kellogg) C.L. Hitchc. & Maguire <i>nuda</i> (S. Wats.) C.L. Hitchc. & Maguire ssp. <i>insectivora</i> (Henders.) C.L. Hitchc. & Maguire <i>sargentii</i> S. Wats.								O					
	X	X	O						O			X	X
	X		O										X
	X		O						O	X		X	
	O							O	O				
	X	X	X									X	X
<i>Stellaria</i> <i>crispa</i> Cham. & Schlecht. <i>longipes</i> Goldie <i>umbellata</i> Turcz. ex Kar. & Kir.	X	X			X				X		X	X	X
	X	X	X	X	X	X		X		X		X	X
	X				X						X	X	X
CHENOPODIACEAE													
<i>Atriplex</i> <i>argentea</i> Nutt. ssp. <i>argentea</i> <i>canescens</i> (Pursh) Nutt. ssp. <i>canescens</i> <i>confertifolia</i> (Torr. & Frem.) S. Wats. <i>heterosperma</i> Bunge <i>patula</i> L. ssp. <i>hastata</i> (L.) H. & S. <i>rosea</i> L.													
			X			X							
				X	X		X	X					
				X		X							
			X	X	X			X					
			X	X			X	X					
<i>Bassia</i> <i>hyssopifolia</i> (Pallas) Kuntze				X		X	X						
<i>Ceratoides</i> <i>lanata</i> (Pursh) J.T. Howell var. <i>lanata</i>	X	X	X	X		X	X						
<i>Chenopodium</i> <i>album</i> L. <i>atrovirens</i> Rydb. <i>botrys</i> L. <i>dessiccatum</i> A. Nels. var. <i>leptophylloides</i> (J. Murr) H.A. Wahl. var. <i>dessiccatum</i>	X	X	X	X		X		X	X		X		X
	X	X	O			X	O	X	X				
		X	X	X		X	X						
	X	X							X		X		
	X	X					X		O	O	O		

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>fremontii</i> S. Wats.				X			X						
<i>leptophyllum</i> (Moq.) Nutt. ex S. Wats.	O			O	O	O	O	O					
<i>overi</i> Aellen	X	X									X	X	
<i>Grayia</i>													
<i>spinosa</i> (Hook.) Moq.	X	X	X	X	X	X	X	X			X		
<i>Halogeton</i>													
<i>glomeratus</i> (Stephan ex Bieb.) C.A. Mey.				X	X								
<i>Kochia</i>													
<i>scoparia</i> (L.) Schrad.			X	X	X	X							
<i>Monolepis</i>													
<i>nuttalliana</i> (Roem. & Schult.) Greene	X	X	X	X		X	X	X			X	X	
<i>spatulata</i> Gray	O			O		O		O	O				
<i>Salsola</i>													
<i>iberica</i> Sennen & Pau	X	X	X	X	X	X							
<i>Sarcobatus</i>													
<i>vermiculatus</i> (Hook.) Torr. var. <i>vermiculatus</i>			X	X	X	X	X	X					
<i>Sueda</i>													
<i>occidentalis</i> S. Wats.				X		X							
CLUSIACEAE													
<i>Hypericum</i>													
<i>formosum</i> H.B.K.													
ssp. <i>scouleri</i> (Hook.) C.L. Hitchc.	X	X			X	X		X					
CONVOLVULACEAE													
<i>Calystegia</i>													
<i>polymorpha</i> (Greene) Munz	X	X							X				
<i>Convolvulus</i>													
<i>arvensis</i> L.			X	X	X		X						
CORNACEAE													
<i>Cornus</i>													
<i>sericea</i> L. ssp. <i>sericea</i>	X	X		O	X	X		X	X		X		
CRASSULACEAE													
<i>Sedum</i>													
<i>integrifolium</i> Coult. & A. Nels.	X											X	X
<i>lanceolatum</i> (Nutt.) Britton & Rose	X	X								O	X	X	
<i>obtusatum</i> Gray	X								X	X	X	X	
CROSSOSOMATAACEAE													
<i>Forsellesia</i>													
<i>nevadensis</i> (Gray) Greene			X			X							
CUSCUTACEAE													
<i>Cuscuta</i>													
<i>suksdorfii</i> Yunker var. <i>subpedicellata</i> Yunker					O			O					
CYPERACEAE													
<i>Carex</i>													
<i>abrupta</i> Mackenzie	X	X							X		X		
<i>aquatilis</i> Wahlenb.	X	X			X			X			X	O	
<i>athrostachya</i> Olney	X	X	X		X		X	X	O	X	O		
<i>aurea</i> Nutt.	X	X			X	X		X		X	X		
<i>brevipes</i> W. Boott.	O			O	O		O	O					
<i>canescens</i> L.	O				O					O	O	O	
<i>capitata</i> L.	X	X								O	O	X	X
<i>congdonii</i> Bailey	X	X			X						X		X
<i>disperma</i> Dewey	X	X	X					X	X		X		
<i>douglasii</i> Boott	X	X	X	X			X	X	X		X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>exserta</i> Mackenzie	X	X	X					X	X		X	X	X
<i>festivella</i> Mackenzie	X	X					X		X	X	X	X	
<i>fissuricola</i> Mackenzie	O									O			
<i>haydeniana</i> Olney	O											O	O
<i>helleri</i> Mackenzie	X	X	O									X	X
<i>heteroneura</i> W. Boott													
var. <i>epapillosa</i> (Mackenzie) F.J. Herm.	O	O								O	O	O	O
var. <i>heteroneura</i>	X	X			X				X		X	X	
<i>hoodii</i> Boott	X	X			X				X		X	X	
<i>jepsonii</i> J.T. Howell	X				X				X				
<i>jonesii</i> Bailey	X	X			X				X	O	O	O	
<i>lanuginosa</i> Michx.	X	X	X		X	X			X		X	X	
<i>leporinella</i> Mackenzie	X	X									O	O	X
<i>luzulifolia</i> W. Boott	X	X			X						X	X	
<i>microptera</i> Mackenzie	O	O	O								O	O	O
<i>nebraskensis</i> Dewey	X	X	X	X	X	X	X	X	X		X	X	X
<i>nervina</i> Bailey	O									O	O	O	O
<i>nigricans</i> C.A. Mey.	X	X			X						X	X	
<i>pachystachya</i> Cham. ex Steudel.				O	O	O							
<i>phaeocephala</i> Piper	X	X										X	X
<i>praegracilis</i> W. Boott		X	X	X		O	X	X	X	O			
<i>rossii</i> Boott ex Hook.	O		O							O	O	O	O
<i>rostrata</i> Stokes ex With.	X	X	O		X				X		X		
<i>scopulorum</i> T. H. Holm.													
var. <i>bracteosa</i> (Bailey) F.J. Herm.	X	X								X	X	X	
var. <i>scopulorum</i>	X	X			X				X	O	X	X	X
<i>simulata</i> Mackenzie			O		O	O							
<i>specifica</i> Bailey	O								O	O	O	O	
<i>spectabilis</i> Dewey	O									O	O	O	
<i>straminiformis</i> Bailey	X	X	O					X	X	X	X	X	X
<i>subnigricans</i> Stacey	X	X								O	X	X	X
<i>tahoensis</i> Smiley	X	X										X	X
<i>vallicola</i> Dewey	X	X	X					X	X		X	X	
<i>vernacula</i> Bailey	X	X			X					O	X	X	X
<i>vesicaria</i> L.	X	X			X				X	X	X	X	
<i>Eleocharis</i>													
<i>engelmannii</i> Steud.			X	X	X	X							
<i>palustris</i> (L.) Roemer & Schultes	X	X	X	X	X	X		X					
<i>pauciflora</i> (Lightf.) Link	X	X	X		X	X		X		X		X	X
<i>Eriophorum</i>													
<i>crinigerum</i> (Gray) Beetle	X				X					O	X	X	
<i>Scirpus</i>													
<i>acutus</i> Muhl. ex Bigelow			X		X	X							
<i>americanus</i> Pers.			X		X	X							
<i>clementis</i> M.E. Jones	O		O		O						O	O	
<i>microcarpus</i> Presl.	X	X	O		X				X		X		
<i>nevadensis</i> S. Wats.			O		O	O							
<i>pungens</i> Vahl.			X		X	X							
ELAEAGNACEAE													
<i>Elaeagnus</i>													
<i>angustifolia</i> L.			O			O							
<i>Shepherdia</i>													
<i>argentea</i> (Pursh) Nutt.		X	X	X	X	X							
ELATINACEAE													
<i>Elatine</i>													
<i>rubella</i> Rydb.				O					O				



Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>purshii</i> Dougl. ex Hook.													
var. <i>lectulus</i> (S. Wats.) M.E. Jones	X	X		X			X	X	X		X	X	X
var. <i>tinctus</i> M.E. Jones	X	X	X	X			X	X	X				
<i>whitneyi</i> Gray													
var. <i>whitneyi</i>	X	X		X			X	X	X		X	X	X
<i>Dalea</i>													
<i>ornata</i> (Dougl. ex Hook.) Eat. & Wright				X		X							
<i>Lupinus</i>													
<i>andersonii</i> S. Wats.	X	X		X				X	X	X	X	X	X
<i>arbustus</i> Dougl. ex Lindl.													
ssp. <i>calcaratus</i> (Kellogg) Dunn	X	X		X				X	X		X	X	
<i>brevicaulis</i> S. Wats.			X	X	X		X	X					
<i>caudatus</i> Kellogg													
ssp. <i>caudatus</i>	X	X	X	X			X	X	X				
ssp. <i>montigenus</i> (Heller) Hess & Dunn	X	X										X	X
<i>confertus</i> Kellogg	X	X		X			X		X				
<i>hypolasius</i> Greene	X	X									X	X	X
<i>lyallii</i> Gray													
var. <i>danaus</i> (Gray) S. Wats.	X											X	X
var. <i>lyallii</i>	X											X	
<i>meionanthus</i> Gray	X	X							X	X	X	X	X
<i>nevadensis</i> Heller	X	X	X	X			X	X	X				
<i>polyphyllus</i> Lindl.													
ssp. <i>superbus</i> (Heller) Munz	X	X				X				X	X	X	
<i>sellulus</i> Kellogg													
var. <i>lobbii</i> (S. Wats.) Cox	X	X									X	X	X
var. <i>sellulus</i>	X								X		X	X	
<i>tegeticulatus</i> Eastw	X	X		X				X	X		X	X	X
<i>X inyoensis</i> Heller	X	X		X				X				X	
<i>Medicago</i>													
<i>lupulina</i> L.	X	X	X	X		X	X	X	X	X			
<i>sativa</i> L.	X	X	X	X		X	X	X		X			
<i>Melilotus</i>													
<i>albus</i> Medic.	X	X	X	X		X		X	X				
<i>officinalis</i> (L.) Pallas	X	X	X	X		X		X	X		X		
<i>Oxytropis</i>													
<i>parryi</i> Gray	X	X											X
<i>Robinia</i>													
<i>pseudoacacia</i> L.	X							X					
<i>Trifolium</i>													
<i>andersonii</i> Gray													
ssp. <i>beatleyae</i> Gillett				X	X			X	X				
ssp. <i>andersonii</i>			X	X				X	X	X			
<i>cyathiferum</i> Lindl.	X	X		O		X		O	X	X			
<i>hybridum</i> L.	X					X			X				
<i>longipes</i> Nutt.													
ssp. <i>longipes</i>	X	X		O		X		O	X	O	X	X	X
<i>monanthum</i> Gray													
var. <i>monanthum</i>	X	X		O		X		X	X	X	X	X	X
<i>pratense</i> L.	X	X				X			X				
<i>productum</i> Greene	X								O	O	X	X	
<i>repens</i> L.	X	X	X			X		X	X				
<i>wormskjoldii</i> Lehm.	X	X				X		X	X				
<i>Vicia</i>													
<i>americana</i> Muhl. ex Willd.													
ssp. <i>americana</i>	X	X	X	X		X		X	X				
FAGACEAE													
<i>Castanopsis</i>													
<i>sempervirens</i> (Kellogg) Dudley	X									X	X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
GENTIANACEAE													
<i>Frasera</i>													
<i>speciosa</i> Dougl. ex Griseb.	X	X							X	X	X	X	
<i>Gentiana</i>													
<i>calycosa</i> Griseb.	O									O	O	O	
<i>newberryi</i> Gray	X	X			X							X	X
<i>Gentianopsis</i>													
<i>holopetala</i> (Gray) Iltis	X	X	O		X	X		X	X	O	X	X	
GERANIACEAE													
<i>Erodium</i>													
<i>cicutarium</i> (L.) L'Her.	X	X	X	X		X	X	X	X				
<i>Geranium</i>													
<i>richardsonii</i> Fisch. & Trautv.	X	X	X		X	X		X	O	X	X		
HALORAGIDACEAE													
<i>Hippuris</i>													
<i>vulgaris</i> L.	X	X	X		X	X	X		X		X		
HYDROCHARITACEAE													
<i>Elodea</i>													
<i>canadensis</i> Michx.	X				X				X				X
HYDROPHYLLACEAE													
<i>Hesperochiron</i>													
<i>californicus</i> (Benth.) S. Wats.	X	X	X	X	X	X	X	X	X				
<i>Hydrophyllum</i>													
<i>capitatum</i> Dougl. ex Benth.													
var. <i>alpinum</i> S. Wats.	X	X			X							X	X
<i>Nama</i>													
<i>aretioides</i> (Hook. & Arn.) Brand		X	X	X		X	X	X					
<i>densum</i> Lemmon	X	X		O				O	X				
<i>rothrockii</i> Gray				O				O					
<i>Nemophila</i>													
<i>spatulata</i> Coville	X	X	X					X	X		X		X
<i>Phacelia</i>													
<i>bicolor</i> Torr. ex S. Wats.				O				O					
<i>curvipes</i> Torr. ex S. Wats.	X	X	X	X			X	X	X				
<i>frigida</i> Greene	X	X										X	X
<i>hastata</i> Dougl. ex Lehm.													
ssp. <i>compacta</i> (Brand) Heckard	X	X	X					X	X		X	X	X
<i>heterophylla</i> Pursh													
ssp. <i>virgata</i> (Greene) Heckard	X	X	X	X			X	X	X	X			
<i>humilis</i> Torr. & Gray													
var. <i>humilis</i>	X	X	X	X			X	X	X				
<i>hydrophyloides</i> Torr. ex Gray	O								O		O		
<i>linearis</i> (Pursh) Holz.				X				X					
<i>monoensis</i> Halse				X			X	X					
<i>peirsoniana</i> J.T. Howell				X				X					
<i>ramosissima</i> Dougl. ex Lehm.													
var. <i>ramosissima</i>	X	X	X	X			X	X	X		X		
<i>tetramera</i> J.T. Howell				X			X	X					
<i>Tricardia</i>													
<i>watsonii</i> Torr. ex S. Wats.				X			X	X					
IRIDACEAE													
<i>Iris</i>													
<i>missouriensis</i> Nutt.	X	X	X	X	X	X	X	X	X	X		X	X
<i>Sisyrinchium</i>													
<i>halophilum</i> Greene	X	X	X	X	X		X	X	X				
<i>idahoense</i> Bickn.													
var. <i>occidentale</i> (Bickn.) Henderson	X	X	X	X	X		X	X	X		X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
JUNCACEAE													
<i>Juncus</i>													
<i>balticus</i> Willd.	X	X	X	X	X		X	X	X				
<i>bryoides</i> F.J. Herm.	X	X			X		X	X			X	X	
<i>bufonius</i> L.													
var. <i>occidentalis</i> F.J. Herm.	X	X			X			X					
var. <i>bufonius</i>	X	X	O		X		O	X			X	X	
<i>capillaris</i> F.J. Herm.	X	X			X						X		
<i>chlorocephalus</i> Engelm.	O								O	O	O	O	
<i>drummondii</i> E. Mey.	O								O	O	O	O	
<i>ensifolius</i> Wikstr.													
var. <i>montanus</i> (Engelm.) C.L. Hitchcock				O	O		O						
<i>hemindyus</i> F.J. Herm.	X	X			X			X			O	O	
<i>kelloggii</i> Engelm.	O		O		O		O	O					
<i>longistylis</i> Torr.	X	X			X						X	X	
<i>macrandrus</i> Coville				X			X						
<i>megaspermus</i> F.J. Herm.	O				O			O					
<i>mertensianus</i> Bong.	X	X			X		X	X			X	X	
<i>mexicanus</i> Willd.	X	X	X	X	X		X	X	X		X	X	
<i>nevadensis</i> S. Wats.	X	X	O		X		X	X			O	O	
<i>orthophyllus</i> Coville	X	X	X	X	X		X	X	X		X	X	
<i>parryi</i> Engelm.	X	X	O								X	X	X
<i>saximontanus</i> A. Nels.	X	X			X						X		
<i>Luzula</i>													
<i>divaricata</i> S. Wats.	X	X									X	X	
<i>multiflora</i> (Retz.) Lej.													
ssp. <i>comosa</i> (E. Mey.) Hulten	X	X							X		X	X	X
<i>spicata</i> (L.) DC.	X	X									X		
<i>subcongesta</i> (S. Wats.) Jepson	X								X		X	X	X
JUNCAGINACEAE													
<i>Triglochin</i>													
<i>concinna</i> Burt-Davy													
var. <i>debilis</i> (M.E. Jones) J.T. Howell				O	O	O							
<i>maritima</i> L.			X	O	X	X							
LAMIACEAE													
<i>Agastache</i>													
<i>urticifolia</i> (Benth.) Kuntze	X	X	X	X			X	X			X	X	
<i>Marrubium</i>													
<i>vulgare</i> L.	X	X	X	X			X	X	X	X			
<i>Mentha</i>													
<i>arvensis</i> L.													
ssp. <i>haplocalyx</i> Briq.	O	X	X	X	X	X							
<i>Monardella</i>													
<i>odoratissima</i> Benth.													
ssp. <i>glauca</i> (Greene) Epling	X	X	X					X	X		X	X	X
<i>Salvia</i>													
<i>dorrii</i> (Kellogg) Abrams													
var. <i>dorrii</i>		X	X	X			X	X					
<i>Trichostema</i>													
<i>austromontana</i> Lewis	O	O	O					O	O	O			
LEMNACEAE													
<i>Lemna</i>													
<i>gibba</i> L.	X	X	X	X	X		X	X	X				
<i>minuta</i> H.B.K.				O	O			O					
<i>trisulca</i> L.	X		X		X			X					
LENTIBULARIACEAE													
<i>Utricularia</i>													
<i>vulgaris</i> L.	X				X			X					

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<b>LILIACEAE</b>													
<i>Allium</i>													
<i>amplectens</i> Torr.				O					O				
<i>anceps</i> Kellogg		X	X	X		X	X	X					
<i>atrorubens</i> S. Wats. var. <i>atrorubens</i>			X	X	X		X	X					
<i>bisceptrum</i> S. Wats.	X	X		X					X	X		X	X
<i>campanulatum</i> S. Wats.	X	X	X	X		X	X	X		X		X	X
<i>lemmonii</i> S. Wats.	X	X				X				X			
<i>parvum</i> Kellogg		X	X	X			X	X					
<i>validum</i> S. Wats.	X					X				X		X	
<i>Calochortus</i>													
<i>bruneanus</i> A. Nels. & J.F. Macbride	X	X	X	X					X				
<i>leichtlinii</i> Hook. f.	X	X	X	X					X	X	X		X
<i>Camassia</i>													
<i>leichtlinii</i> (Baker) S. Wats.	O									O			
<i>Fritillaria</i>													
<i>atropurpurea</i> Nutt.	O			O					O			O	O
<i>pinetorum</i> A. Davids.	X									X			
<i>Lilium</i>													
<i>parvum</i> Kellogg	X					X				X	X	X	X
<i>Muilla</i>													
<i>transmontana</i> Greene	X	X	X	X					X	X			
<i>Smilacina</i>													
<i>stellata</i> (L.) Desf. var. <i>stellata</i>	X	X	X	X		X		X		X	X	X	
<i>Triteleia</i>													
<i>gracilis</i> (S. Wats.) Greene	O									O	O	O	
<i>ixioides</i> (Ait. f.) Greene ssp. <i>analina</i> (Greene) Lenz	X												X
<i>Veratrum</i>													
<i>californicum</i> Durand var. <i>californicum</i>	X	X		O		X		X	X	X		X	X
<i>Zigadenus</i>													
<i>paniculatus</i> (Nutt.) S. Wats.	X	X	X	X			X	X	X	X		X	X
<i>venenosus</i> S. Wats. var. <i>venenosus</i>	X	X		X		X		X	X			X	
<b>LIMNANTHACEAE</b>													
<i>Floerkea</i>													
<i>proserpinacoides</i> Willd.	X	X				X			O	X	O	X	
<b>LINACEAE</b>													
<i>Linum</i>													
<i>lewisii</i> Pursh var. <i>lewisii</i>	X	X		X					X	X	O	X	X
<b>LOASACEAE</b>													
<i>Mentzelia</i>													
<i>albicaulis</i> (Hook.) Torr. & Gray	X	X	X	X		X	X	X	X				X
<i>congesta</i> (Nutt.) Torr. & Gray	X	X	X	X			X	X	X			X	
<i>dispersa</i> S. Wats.	X	X							X			X	
<i>laevicaulis</i> (Hook.) Torr. & Gray	X	X	X	X		X	X		X			X	X
<i>montana</i> (A. Davids.) A. Davids.	X	X							X				
<i>torreyi</i> Gray var. <i>torreyi</i>									O				
<i>veatchiana</i> Kellogg				X					X				
<b>LORANTHACEAE</b>													
<i>Arceuthobium</i>													
<i>divaricatum</i> Engelm.		X	X	X					X				
<i>Phoradendron</i>													
<i>juniperinum</i> Engelm. ex Gray ssp. <i>juniperinum</i>	X	X	X	X					X		X		



Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
MALVACEAE													
<i>Malva</i>													
<i>neglecta</i> Wallr.	X	X	X	X					X		X		
<i>Sidalcea</i>													
<i>glaucescens</i> Greene	O								O	O	O	O	
<i>multifida</i> Greene	X	X							X		X		
<i>oregana</i> (Torr. & Gray) Gray													
ssp. <i>spicata</i> (Regel) C.L. Hitchc.	X	X		X	X			X	X		X	X	
<i>Sphaeralcea</i>													
<i>ambigua</i> Gray													
ssp. <i>monticola</i> Kearney				X	X			X	X				
<i>grossularifolia</i> (Hook. & Arn.) Rydb.		X	X					X	X				
MORACEAE													
<i>Humulus</i>													
<i>lupulus</i> L.													
var. <i>lupuloides</i> E. Small				O				O					
NYCTAGINACEAE													
<i>Abronia</i>													
<i>turbinata</i> Torr. ex S. Wats.				O				O					
<i>Mirabilis</i>													
<i>bigelovii</i> Gray													
var. <i>retrorsa</i> (Heller) Munz				X	X			X	X				
NYMPHAEACEAE													
<i>Nuphar</i>													
<i>luteum</i> (L.) Sibthorp. & Sm.													
ssp. <i>polysepalum</i> (Engelm.) E.O. Beal	X							X				X	
OLEACEAE													
<i>Menodora</i>													
<i>spinescens</i> Gray				X				X					
ONAGRACEAE													
<i>Boisdualia</i>													
<i>densiflora</i> (Lindl.) S. Wats.	X											X	
<i>Camissonia</i>													
<i>claviformis</i> (Torr. & Frem.) Raven													
ssp. <i>integrior</i> (Raven) Raven			X	X	X			X	X				
<i>nevadensis</i> (Kellogg) Raven			X		X			X	X				
<i>pubens</i> (S. Wats.) Raven	X	X	X	X					X	X			
<i>pusilla</i> Raven		X	X	X				X	X				
<i>subacaulis</i> (Pursh) Raven	X	X	X	X		X		X		X		X	
<i>tanacetifolia</i> (Torr. & Gray) Raven													
ssp. <i>tanacetifolia</i>		X	X	X		X		X	X				
<i>Circaea</i>													
<i>alpina</i> L.													
ssp. <i>pacifica</i> (Aschers. & Magnus) Raven	X							X		X	O	O	
<i>Epilobium</i>													
<i>anagallidifolium</i> Lam.	X	X						X		X		X	X
<i>angustifolium</i> L.	X	X	X	X				X	X	X	X	X	X
<i>brachycarpum</i> Presl.	X	X		X				X	X	X			
<i>ciliatum</i> Raf.													
ssp. <i>ciliatum</i>	X	X	X	X		X		X	X	X	X	X	X
<i>glaberrimum</i> Barbey	X	X								O	O	X	X
<i>lactiflorum</i> Hausskn.	X	X				X				X		X	X
<i>latifolium</i> L.	X	X				X						X	X
<i>obcordatum</i> Gray													
ssp. <i>obcordatum</i>	X	X											X
<i>oregonese</i> Hausskn.	X	X		O					O	X			

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Gayophytum</i>													
<i>decipiens</i> Lewis & Szweykowski	X	X	X	X	X		X	X	X		X	X	
<i>diffusum</i> Torr. & Gray													
<i>ssp. parviflorum</i> Lewis & Szweykowski	X	X		O	X			X	X		X		X
<i>heterozygum</i> Lewis & Szweykowski	X	X			X				X		X		
<i>ramosissimum</i> Torr. & Gray	X	X	X	X	X		X	X	X		X		X
<i>Oenothera</i>													
<i>caespitosa</i> Nutt.													
<i>ssp. marginata</i> (Nutt.) Munz			X	X	X		X	X	X	X		X	
<i>hookeri</i> Torr. & Gray													
<i>ssp. angustifolia</i> (R.R. Gates) Munz	X	X	X	X	X		X	X	X	X			
ORCHIDACEAE													
<i>Corallorhiza</i>													
<i>maculata</i> Raf.	X									X	O	O	
<i>Epipactis</i>													
<i>gigantea</i> Dougl. ex Hook.	O				O				O				
<i>Listera</i>													
<i>convallarioides</i> (Sw.) Nutt.	X				X				X				
<i>Platanthera</i>													
<i>dilatata</i> (Pursh) Lindl. ex Beck													
<i>var. leucostachys</i> (Lindl.) Luer	X	X			X				X	X	X	X	
<i>sparsiflora</i> (S. Wats.) Schlechter	X	X			X		X		X				
<i>Spiranthes</i>													
<i>romanoffiana</i> Cham.	O				O				O	O	O	O	O
OROBANCHACEAE													
<i>Orobanche</i>													
<i>corymbosa</i> (Rydb.) Ferris													
<i>var. corymbosa</i>			X	X		X	X						
<i>fasciculata</i> Nutt.													
<i>var. lutea</i> (Parr.) Ashley				O		O	O						
<i>var. fasciculata</i>	X	X	X	X		X	X		X		X	X	
PAEONIACEAE													
<i>Paeonia</i>													
<i>brownii</i> Dougl. ex Hook.	X	X							X	X		X	
PAPAVERACEAE													
<i>Argemone</i>													
<i>munita</i> Dur. & Hilg.													
<i>ssp. rotundata</i> (Rydb.) G. Ownbey	X	X	X	X				X	X	X			
<i>Corydalis</i>													
<i>aurea</i> Willd.	X	X							X	X		X	
<i>Dicentra</i>													
<i>uniflora</i> Kellogg	X	X									O	X	X
<i>Eschscholzia</i>													
<i>californica</i> Cham.	X	X						X	X				
PLANTAGINACEAE													
<i>Plantago</i>													
<i>lanceolata</i> L.	X	X				X	X		X				
POACEAE													
<i>Agropyron</i>													
<i>dasystachum</i> (Hook.) Scribn. & Sm.													
<i>var. dasystachum</i>				O					O				
<i>desertorum</i> (Link.) Schultes	X	X	X			X	X	X	X		X		
<i>pringlei</i> (Scribn. & Sm.) A.S. Hitchc.	X	X										X	X
<i>scribneri</i> Vasey			X									X	X
<i>trachycaulum</i> (Link.) Malte ex H. Lewis													
<i>var. latiglume</i> (Scribn. & Sm.) Beetle	O								O				
<i>var. trachycaulum</i>	X	X		X					X		X		

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Agrostis</i>													
<i>capillaris</i> L.	X	X	X					X	X		X		
<i>exarata</i> Trin.	X	X	X	O	X		X		X				X
<i>filiculmis</i> M.E. Jones	X	X							X		X		
<i>lepada</i> A.S. Hitchc.	X	X									X	X	
<i>scabra</i> Willd.	X	X		O	X		X	X	X		X		
<i>Alopecurus</i>													
<i>aequalis</i> Sobol.	X	X		X	X		X		X				
<i>geniculatus</i> L.	X	X			X							X	X
<i>Beckmannia</i>													
<i>syzigachne</i> (Stendl.) Fearn.			X		X	X							
<i>Bromus</i>													
<i>anomalus</i> Rupr. ex Fourn.				O					O				
<i>carinatus</i> Hook. & Arn.	X	X	X	X	X		X	X	X		X		
<i>catharticus</i> Vahl	X	X							X				
<i>commutatus</i> Schrad.	X	X			X		X		X				
<i>inermis</i> Leyes.	X	X		X	X				X				
<i>rubens</i> L.				X	X			X					
<i>suksdorfii</i> Vasey	O									O	O	O	O
<i>tectorum</i> L.	X	X	X	X		X	X	X					
<i>Calamagrostis</i>													
<i>breweri</i> Thurb.	X												X
<i>canadensis</i> (Michx.) Beauv.	X	X		O	X			X				X	
<i>purpurascens</i> R. Br.	X	X										X	X
<i>Dactylis</i>													
<i>glomerata</i> L.	X								X		X		
<i>Danthonia</i>													
<i>intermedia</i> Vasey	X											X	
<i>Deschampsia</i>													
<i>cespitosa</i> (L.) Beauv.													
ssp. <i>cespitosa</i>	X	X		O	X		X		X		X	X	X
<i>danthonioides</i> (Trin.) Munro ex Benth.	X	X			X		X						
<i>elongata</i> (Hook.) Munro ex Benth.	X	X		O	X			O	X		X	X	
<i>Distichlis</i>													
<i>spicata</i> (L.) Greene													
var. <i>stricta</i> (Torr.) Beetle				X	X		X	X					
<i>Echinochloa</i>													
<i>crusgalli</i> (L.) Beauv.	X	X			X	X							
<i>Elymus</i>													
<i>cinereus</i> Scribn. & Merr.	X	X	X	X		X	X	X	X		X		
<i>glaucus</i> Buckl.										X		X	
ssp. <i>glaucus</i>	X	X								X		X	
ssp. <i>virescens</i> (Piper) Gould			X				X						
<i>triticoides</i> Buckl.													
var. <i>triticoides</i>				X	X		X	X					
var. <i>pubescens</i> A.S. Hitchc.			X	X	X		X	X					
<i>Elystanion</i>													
<i>X hansenii</i> (Scribn.) Bowden	X	X										X	X
<i>Eragrostis</i>													
<i>orcuttiana</i> Vasey				X			X						
<i>Festuca</i>													
<i>brachyphylla</i> Schultes	X	X		O								X	X
<i>pratensis</i> Huds.		X			X	X	X						
<i>rubra</i> L.	X	X					X		X		X	X	X
<i>Glyceria</i>													
<i>elata</i> (Nash) M.E. Jones	X	X			X				X		X		
<i>Hilaria</i>													
<i>jamesii</i> (Torr.) Benth.				X		X	X						
<i>Hordeum</i>													
<i>brachyantherum</i> Nevski	X	X		X			X	X	X		X		
<i>jubatum</i> L.	X	X	X	X			X	X	X		X		

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Koeleria nitida</i> Nutt.	X	X	X	X				X	X	X		X	X
<i>Leucopoa kingii</i> (S. Wats.) W.A. Weber	X	X	X	X				X	X	X		X	X
<i>Melica bulbosa</i> Geyer ex Porter & Coult.	X	X						X	X			X	X
<i>stricta</i> Boland.	X	X		X				X	X	X		X	X
<i>Muhlenbergia asperifolia</i> (Nees & Meyem) Parodi	X	X	X	X				X	X				
<i>filiformis</i> (Thurb.) Rydb.	X	X										X	X
<i>richardsonis</i> (Trin.) Rydb.	X	X	X	X			X	X		X		X	X
<i>Oryzopsis hymenoides</i> (Roemer & Schultes) Ricker	X	X	X	X			X	X	X	X		X	
<i>Panicum capillare</i> L.				X	X		X						
<i>Phleum alpinum</i> L.	X	X		X	X			X	X			X	X
<i>pratense</i> L.	X	X	X	X	X			X		X			
<i>Phragmites australis</i> (Cav.) Trin. ex Steud.				X	O	X	X						
<i>Poa ampla</i> Merr.	X	X		X				X	X				
<i>annua</i> L.	X	X				X				X			
<i>bolanderi</i> Vasey	X	X								X			
<i>bulbosa</i> L.	X	X				X		X	X				
<i>compressa</i> L.	X	X				X	X	X					
<i>cusickii</i> Vasey	X	X		X					X	X		X	X
<i>epilis</i> Scribn.	X	X								X		X	X
<i>fendleriana</i> (Steud.) Vasey	X	X	X	X				X	X	X			
<i>gracillima</i> Vasey	X	X											X
<i>incurva</i> Scribn. & Williams	X	X											X
<i>interior</i> Rydb.	X	X						X		X			
<i>leibergii</i> Scribn.	X	X											X
<i>leptocoma</i> Trin.				X	O			X					
<i>nervosa</i> (Hook.) Vasey	X	X		X				X		X		X	X
<i>nevadensis</i> Vasey ex Scribn.										X			
var. <i>juncifolia</i> (Scribn.) Beetle	X	X								X			
var. <i>nevadensis</i>	X	X	X	X		X	X	X	X		X	X	
<i>palustris</i> L.	X	X	X	O		X	X	X	O	X		X	
<i>pratensis</i> L.	X	X	X	X		X		X	X	X	X	X	X
<i>rupicola</i> Nash. ex Rydb.	X	X											X
<i>scabrella</i> (Thurb.) Benth. ex Vasey	X	X		X				X	X				X
<i>secunda</i> Presl.	X	X	X	X				X	X	X	X		
<i>suksdorfii</i> (Beal) Vasey ex Piper	O			O									O
<i>Polypogon monspeliensis</i> (L.) Desf.	X	X	X	X		X	X	X					
<i>Puccinellia distans</i> (Jacq.) Parl.	O					O	O						
<i>lemmonii</i> (Vasey) Scribn.	X	X						X		X		X	
<i>nuttalliana</i> (Schultes) A.S. Hitchc.	O					O	O						
<i>Secale cereale</i> L.	X	X								X			
<i>Sitanion hystrix</i> (Nutt.) J.G. Smith													
var. <i>brevifolium</i> (J.G. Smith) C.L. Hitchc.	X	X	X	X				X	X	X		X	X
<i>jubatatum</i> J.G. Smith	X	X										X	
<i>Sphenopholis obtusata</i> (Michx.) Scribn.													
var. <i>obtusata</i>				O	O	O							
<i>Sporobolus cryptandrus</i> (Torr.) Gray				X				X					

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Stipa</i>													
<i>californica</i> Merr. & Burt-Davy	X	X							X	X	X		
<i>columbiana</i> Macoun.	X	X										X	X
<i>comata</i> Trin. & Rupr. var. <i>comata</i>	X	X	X	X			X	X	X		X		
<i>nevadensis</i> B.L. Johnson	X	X	X	X			X		X		X	X	
<i>occidentalis</i> Thurb. ex S. Wats.	X	X		X			X		X		X		
<i>pinetorum</i> M.E. Jones				O					O				
<i>speciosa</i> Trin. & Rupr.		X	X	X			X						
<i>thurberiana</i> Piper				X			X	X	X				
<i>webberi</i> (Thurb.) B.L. Johnson				X			X		X				
<i>Trisetum</i>													
<i>spicatum</i> (L.) Richt. ssp. <i>spicatum</i>	X	X		X					X		X	X	X
<i>triflorum</i> (Bigelow) Love & Love ssp. <i>molle</i> (Michx.) Love & Love	X	X											X
<i>Vulpia</i>													
<i>megalura</i> (Nutt.) Rydb.	X	X					X						
<i>octoflora</i> (Walt.) Rydb. var. <i>hirtella</i> (Piper) Henr. var. <i>octoflora</i>	X	X	X	X			X		X				
			X	X	X		X						
POLEMONIACEAE													
<i>Allophyllum</i>													
<i>gilioides</i> (Benth.) A. & V. Grant	X	X		X	X	X	X	X	X		X		
<i>integrifolium</i> (Brand) A. & V. Grant	O								O		O		
<i>violaceum</i> (Heller) A. & V. Grant	X	X	X	X		X	X	X	X				
<i>Collomia</i>													
<i>grandiflora</i> Dougl. ex Lindl.	X	X		X			X	X	X		X		
<i>linearis</i> Nutt.	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>tinctoria</i> Kellogg	X	X	X				X	X					
<i>Eriastrum</i>													
<i>sparsiflorum</i> (Eastw.) Mason			X	X	X		X	X					
<i>wilcoxii</i> (A. Nels.) Mason	X	X		O			X	X	X				
<i>Gilia</i>													
<i>brecciarum</i> M.E. Jones ssp. <i>brecciarum</i>	X	X	X	X			X	X	X				
<i>capillaris</i> Kellogg	X	X				X			X	O	O	O	
<i>inconspicua</i> (Sm.) Sweet				O		O							
<i>interior</i> (Mason & A. Grant) A. Grant	O								O				
<i>leptalea</i> (Gray) Greene ssp. <i>leptalea</i>	X	X										X	
<i>leptantha</i> Parish ssp. <i>salticola</i> (Eastw.) A. & V. Grant	X	X							X				
<i>leptomeria</i> Gray			X	X		X	X						
<i>malior</i> Day & V. Grant			X	X		X							
<i>modocensis</i> Eastw.	X	X	X	X		X	X	X	X		X		
<i>ophthalmoides</i> Brand	X	X	X	X		X		X	X		X		
<i>sinuata</i> Dougl. ex Benth.				O		O	O						
<i>Gymnosteris</i>													
<i>parvula</i> (Rydb.) Heller	X	X	X	X		X	X	X	X		X	X	
<i>Ipomopsis</i>													
<i>aggregata</i> (Pursh) V. Grant ssp. <i>aggregata</i>	X	X							X				
ssp. <i>attenuata</i> (Gray) V. & A. Grant	X	X		X				X	X		X	X	
<i>congesta</i> (Hook.) V. Grant ssp. <i>montana</i> (A. Nels. & Kennedy) V. Grant	X										X	X	X
ssp. <i>palmifrons</i> (Brand) Day	X	X		X				X			X	X	X



Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>lobbii</i> Torr. & Gray													
var. <i>lobbii</i>	X	X									X	X	X
<i>maculatum</i> Heller		X				X	X						
<i>marifolium</i> Torr. & Gray	X	X									X	X	X
<i>microthecum</i> Nutt.													
var. <i>laxiflorum</i> Hook.	X	X	X			X	X	X			X	X	X
var. <i>ambiguum</i> (M.E. Jones) Reveal	X	X	X	X		X	X	X					
<i>nidularium</i> Coville		X	X	X		X	X						
<i>nudum</i> Dougl. ex Benth.													
var. <i>deductum</i> (Greene) Jepson	X	X							X		X	X	X
<i>nutans</i> Torr. & Gray													
var. <i>nutans</i>			X			X		O					
<i>ochrocephalum</i> S. Wats.													
var. <i>alexandrae</i> Reveal in ed			X	X		X	X	X					
<i>ovalifolium</i> Nutt.													
var. <i>ovalifolium</i>	X	X	X	X		X	X	X			X	X	
var. <i>nicale</i> (Canby) M.E. Jones	X	X	X			X	X				X	X	
var. <i>nevadense</i> Gandoger	X	X	X	X		X	X	X					
<i>pusillum</i> Torr. & Gray			X	X		X							
<i>rosense</i> A. Nels. & Kennedy	X	X	X					X			X	X	X
<i>spergulinum</i> Gray													
var. <i>reddingianum</i> (M.E. Jones) J.T. Howell	X	X	X	X		X	X	X			X	X	X
<i>strictum</i> Benth.													
ssp. <i>proliferum</i> (Torr. & Gray) Stokes				X		X		O					
<i>umbellatum</i> Torr.													
var. <i>nevadense</i> Gandoger	X	X										X	X
var. <i>umbellatum</i>	X	X	X	X		X	X	X	X		X	X	X
<i>vimineum</i> Dougl. ex Benth.		X	X	X		X		X					
<i>wrightii</i> Torr. ex Benth.													
var. <i>subscaposum</i> S. Wats.	X	X	X	X		X	X	X					
<i>Oxyria</i>													
<i>digyna</i> (L.) Hill	X	X	O									X	X
<i>Oxytheca</i>													
<i>dendroidea</i> Nutt.													
ssp. <i>dendroidea</i>			X			X							
<i>Polygonum</i>													
<i>amphibium</i> L.													
var. <i>stipulaceum</i> Coleman		X				X	X	X					
<i>aviculare</i> L.	X	X	X	X		X							
<i>bistortoides</i> Pursh	X	X				X			X		X	X	
<i>douglasii</i> Greene													
var. <i>douglasii</i>	X	X	X	X		X	X	X			X		
var. <i>johnstonii</i> Munz	O	O						O	O	O	O	O	
var. <i>latifolium</i> (Engelm.) Greene	X	X	X					X			X	X	
<i>kelloggii</i> Greene	X	X	X	X		X	X	X			X	X	X
<i>minimum</i> S. Wats.	X										X	X	X
<i>persicaria</i> L.			X			X	X						
<i>shastense</i> Brewer ex Gray	X										X	X	
<i>Rumex</i>													
<i>acetosella</i> L.	X	X							X		X		
<i>californicus</i> Rech. f.	X	X	O			X	O	O	O	O	O	O	
<i>crispus</i> L.	X	X	X	X		X	X		X				
<i>lacustris</i> Greene			O			O	O	O					
<i>occidentalis</i> S. Wats.	O					O							
<i>paucifolius</i> Nutt. ex S. Wats.													
ssp. <i>paucifolius</i>	X	X	X			X		X	X		X		X
ssp. <i>gracilescens</i> (Rech. f.) Rech. f.	X	X											X
<i>salicifolius</i> Weinm.			X				X						
<i>triangulivalvis</i> (Danser) Rech. f.	X	X	X			X	X	X			X		

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
PORTULACACEAE													
<i>Calyptridium</i>													
<i>roseum</i> S. Wats.	X	X	X	X		X	X						
<i>umbellatum</i> (Torr.) Greene	X	X		X		X	X	X	X		X	X	X
<i>Claytonia</i>													
<i>nevadense</i> S. Wats.	X	X			X							X	X
<i>rubra</i> (T.J. Howell) Tidestrom	X	X	X	X		X	X		X				
<i>umbellata</i> S. Wats.	X	X											X
<i>Lewisia</i>													
<i>nevadensis</i> (Gray) B.L. Robins.	X	X	X	X	X			X	X		X	X	X
<i>pygmaea</i> (Gray) B.L. Robins.													
ssp. <i>pygmaea</i>	X	X										X	X
<i>rediviva</i> Pursh													
ssp. <i>rediviva</i>			X	X	X			X	X				
ssp. <i>minor</i> (Rydb.) A. Holmgren			X	X	X			X	X				
<i>sierrae</i> Ferris	X			O								X	X
<i>triphylla</i> (S. Wats.) B.L. Robins.	X										O	X	O
<i>Montia</i>													
<i>chamissoi</i> (Ledeb. ex Spreng.) Greene	X	X	X	X	X		X	X	X		X		
POTAMOGETONACEAE													
<i>Potamogeton</i>													
<i>gramineus</i> L.	X	X		X		X		X	X	X			
<i>richardsonii</i> (Benn.) Rydb.	X					X							X
PRIMULACEAE													
<i>Androsace</i>													
<i>septentrionalis</i> L.													
var. <i>subumbellata</i> A. Nels.	X	X											X
<i>Dodecatheon</i>													
<i>alpinum</i> (Gray) Greene												X	X
ssp. <i>alpinum</i>	X	X			X							X	X
ssp. <i>majus</i> H.J. Thompson	X	X	X	X	X		X	X	X	X	X		
<i>jeffreyi</i> Van Houtte	O				O					O	O	O	O
<i>Primula</i>													
<i>suffrutescens</i> Gray	O												O
RANUNCULACEAE													
<i>Aconitum</i>													
<i>columbianum</i> Nutt.	X	X		O	X			O	X		X		
<i>Actaea</i>													
<i>rubra</i> (Ait.) Willd.													
ssp. <i>arguta</i> (Nutt.) Hulten	X				X				X	X	X		
<i>Anemone</i>													
<i>drummondii</i> S. Wats.	X									O	O	X	X
<i>Aquilegia</i>													
<i>formosa</i> Fisch.													
var. <i>pauciflora</i> (Greene) Boothman	X	X			X		X	X	X		X	X	
var. <i>formosa</i>	X	X	X	X	X		X	X	X	X	X	X	X
<i>pubescens</i> Coville	X												X
<i>Caltha</i>													
<i>leptosepala</i> DC.													
ssp. <i>howellii</i> (Huth) P.G. Smith	X												X
<i>Clematis</i>													
<i>ligusticifolius</i> Nutt.													
var. <i>brevifolia</i> Nutt.	O				O				O				
<i>Delphinium</i>													
<i>andersonii</i> Gray													
ssp. <i>andersonii</i>	X	X	X	X		X	X	X	X		X		
<i>glaucum</i> S. Wats.	X	X			X					X	O	X	X



Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>parishii</i> Gray													
<i>ssp. parishii</i>			X	X		X	X						
<i>polycladon</i> Eastw.	X									X	X	X	
<i>Myosurus</i>													
<i>aristatus</i> Benth. ex Hook.	X	X	X	X	X		X	X	X	X			
<i>minimus</i> L.													
<i>ssp. montanus</i> Campbell	X	X	X	X	X		X	X					
<i>Ranunculus</i>													
<i>alismifolius</i> Geyer ex Benth.													
<i>var. alismellus</i> Gray	X	X			X		X	X	O	X	X		
<i>andersonii</i> Gray	O			O			O	O	O				
<i>aquatilis</i> L.													
<i>var. capillaceus</i> (Thuill.) DC.	X	X	X	O	X		X	O	X	O	X	X	
<i>cymbalaria</i> Pursh													
<i>var. saximontanus</i> Fern.	X	X	X	X	X		X	X	X	X	X		
<i>eschscholtzii</i> Schlecht.													
<i>var. eschscholtzii</i>	X	X			X						X	X	
<i>var. oxynotis</i> (Gray) Jepson	X	X		O							X	X	X
<i>glaberrimus</i> Hook.													
<i>var. ellipticus</i> Hook.			X		X		X	O	O	O			
<i>occidentalis</i> Torr. & Gray													
<i>var. ultramontanus</i> Greene	X	X			X			X					
<i>testiculatus</i> Crantz	X	X			X		X	X					
<i>Thalictrum</i>													
<i>fendleri</i> Gray													
<i>var. fendleri</i>	X	X							X	X	X	X	
<i>sparisflorum</i> Turcz. ex Fisch. & Mey.													
<i>var. saximontanum</i> Boivin	X	X								X	X	X	
RHAMNACEAE													
<i>Ceanothus</i>													
<i>greggii</i> Gray													
<i>var. vestitus</i> (Greene) McMinn	X	X						X					
<i>velutinus</i> Dougl. ex Hook.	X	X		X				X	X	X	X	X	
<i>Rhamnus</i>													
<i>rubra</i> Greene													
<i>ssp. rubra</i>	X			O					X				
ROSACEAE													
<i>Amelanchier</i>													
<i>pallida</i> Greene	X	X	X	X				X	X	X		X	
<i>pumila</i> Torr. & Gray	X									X	X	X	
<i>utahensis</i> Koehne													
<i>var. covillei</i> (Standl.) Clokey			X					X					
<i>var. utahensis</i>	X	X	X	X				X	X	X	X		
<i>Cercocarpus</i>													
<i>ledifolius</i> Nutt. ex Torr. & Gray													
<i>var. ledifolius</i>	X	X	X	X				X	X	X		X	X
<i>var. intricatus</i> (S. Wats.) M.E. Jones			X	X				X					
<i>Chamaebatiaria</i>													
<i>millefolium</i> (Torr.) Maxim.				X				X	X				
<i>Fragaria</i>													
<i>virginiana</i> Duchesne													
<i>ssp. platypetala</i> (Rydb.) Staudt	O				O				O	O	O	O	
<i>Geum</i>													
<i>canescens</i> (Greene) Munz	X	X			X						X	X	X
<i>macrophyllum</i> Willd.	X	X	X	X	X			X	X	X	X	X	

Table 1 continued.

	AREAS				HABITATS									
	N	S	W	M	1	2	3	4	5	6	7	8	9	
<i>Holodiscus</i>														
<i>dumosa</i> (Nutt.) Heller														
var. <i>glabrescens</i> (Greenm.) C.L. Hitchc.	X	X	X	X			X	X	X		X	X		
<i>Horkelia</i>														
<i>fusca</i> Lindl.														
ssp. <i>pseudocapitata</i> (Rydb.) Keck	X	X		O				X	X		X			
<i>Ivesia</i>														
<i>gordonii</i> (Hook.) Torr. & Gray	X	X										X	X	
<i>lycopodioides</i> (Hook.) Torr. & Gray														
ssp. <i>lycopodioides</i>	X	X				X						X		
ssp. <i>megalopetala</i> (Rydb.) Keck	X					X						X		
<i>muirii</i> Gray					O							O	O	
<i>purpurascens</i> (S. Wats.) Keck														
ssp. <i>congdonis</i> (Rydb.) Keck	O	X							O		X			
<i>shockleyi</i> S. Wats.	X											X	X	
<i>Potentilla</i>														
<i>anserina</i> L.														
ssp. <i>anserina</i>	X			X	X	X	X	X						
<i>biennis</i> Greene	X	X	X	X	X	X	X	X		X	X	X		
<i>breweri</i> S. Wats.	X	X								O	O	X	X	
<i>diversifolia</i> Lehm.	X	X				X					O	X	X	
<i>drummondii</i> Lehm.														
ssp. <i>bruceae</i> (Rydb.) Keck	X	X				X						X	X	
ssp. <i>drummondii</i>	O					O				O	O	O		
<i>flabellifolia</i> Hook. ex Torr. & Gray														
var. <i>flabellifolia</i>	X	X				X				O	X	X	X	
<i>fruticosa</i> L.														
ssp. <i>floribunda</i> (Pursh) Elkington	X			O								X	X	X
<i>glandulosa</i> Lindl.														
ssp. <i>nevadensis</i> (S. Wats.) Keck	X	X		X	X			X	X	X	X	X	X	X
<i>gracilis</i> Dougl. ex Hook.														
var. <i>glabrata</i> (Lehm.) C.L. Hitchc.	X	X		O	X	X	X	X				X	X	X
var. <i>flabelliformis</i> (Lehm.) Torr. & Gray			X	X	X	X								
<i>newberryi</i> Gray				O	O	O	O							
<i>pectinisecta</i> Rydb.		X	X	X	X	X								
<i>pseudosericea</i> Rydb.	X	X			X								X	X
<i>Prunus</i>														
<i>andersonii</i> Gray	X	X	X	X		X	X	X	X	X				
<i>emarginata</i> (Dougl. ex Hook.) Walp.	X	X							X	X	X	X		
<i>virginiana</i> L.														
var. <i>demissa</i> (Nutt.) Sarg.	X	X					X	X						
var. <i>melanocarpa</i> (A. Nels.) Sarg.				O			O							
<i>Purshia</i>														
<i>tridentata</i> (Pursh) DC.	X	X	X	X		X	X	X	X			X	X	
<i>Rosa</i>														
<i>woodsii</i> Lindl.														
var. <i>ultramontana</i> (S. Wats.) Jepson	X	X	X	X	X		X	X	X	X	X	X	X	
<i>Rubus</i>														
<i>parviflorus</i> Nutt.														
var. <i>bifarius</i> Fern.	X									X	X			
<i>Sibbaldia</i>														
<i>procumbens</i> L.	X	X		O	X							X	X	
<i>Sorbus</i>														
<i>californica</i> Greene	X									O	O	X	X	
<i>Spiraea</i>														
<i>densiflora</i> Nutt. ex Torr. & Gray														
ssp. <i>densiflora</i>	X											X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
RUBIACEAE													
<i>Galium</i>													
<i>aparine</i> L.	X	X	X				X		X				
<i>bifolium</i> S. Wats.	X	X	X	X	X		X		X	X	X	X	X
<i>hypotrichium</i> Gray													
ssp. <i>ebbettsense</i> Dempster & Ehrend.	X												X
ssp. <i>hypotrichium</i>	X	X		O									X X
<i>multiflorum</i> Kellogg	X	X	X	X		X	X	X	X				
<i>trifidum</i> L.													
ssp. <i>pacificum</i> Wieg.				O			O						
ssp. <i>subbiflorum</i> (Wieg.) Puff	X				X			X					
<i>triflorum</i> Michx.	X				X				X				
<i>Kelloggia</i>													
<i>galioides</i> Torr.	X	X							X	X	X	X	
SALICACEAE													
<i>Populus</i>													
<i>balsamifera</i> L.													
ssp. <i>trichocarpa</i> (Torr. & Gray) Brayshaw	X	X	X		X		X		X				
<i>fremontii</i> S. Wats.	X	X		O	X	X	X						
<i>tremuloides</i> Michx.	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Salix</i>													
<i>arctica</i> Pallas	X	X			X								X X
<i>drummondiana</i> Barratt ex Hook.	X	X			X								X
<i>eastwoodiae</i> Heller	O				O					O	O	O	
<i>exigua</i> Nutt.	X	X	X	X	X		X	X	X				
<i>geyeriana</i> Anderss.													
var. <i>geyeriana</i>		X			X								X
var. <i>argentea</i> (Bebb) Schneid.	X	X		X	X			X	X	X	X	X	
<i>lasiandra</i> Benth.													
var. <i>lasiandra</i>	X	X	X		X	X		X		X			
var. <i>caudata</i> (Nutt.) Sudworth	X	X			X		X		X				
<i>lasiolepis</i> Benth.	X	X		O	X	X	X						
<i>lemmonii</i> Bebb	X	X			X				X	O	X	X	
<i>ligulifolia</i> (Ball) Ball ex Schneid.	O				O				O		O		
<i>lutea</i> Nutt.	X	X		X	X		X		X	O	O		
<i>melanopsis</i> Nutt.	X	X	X	X	X		X		X				
<i>myrtilifolia</i> Anderss.													
var. <i>myrtilifolia</i>	O		X		X			X	O	O	O	O	
<i>orestera</i> Schneid.	X	X		O	X						X	X	X
<i>planifolia</i> Pursh													
var. <i>monica</i> (Bebb) Schneid.	X	X							X		X	X	X
<i>reticulata</i> L.													
ssp. <i>nivalis</i> (Hook.) Love, Love & Kapoor	X											X	X
<i>scouleriana</i> Barratt ex Hook.	X	X							X		O	O	
SAXIFRAGACEAE													
<i>Heuchera</i>													
<i>duranii</i> Bacig.	X	X	X	X			X	X	X		X	X	X
<i>rubescens</i> Torr.													
var. <i>alpicola</i> Jepson	X	X	X	X			X	X	X		X	X	X
<i>Lithophragma</i>													
<i>glabrum</i> Nutt.	X	X	X	X		X	X	X	X		X	X	
<i>Mitella</i>													
<i>breweri</i> Gray	X										X	X	X
<i>pentandra</i> Hook.	X										X	X	X
<i>Parnassia</i>													
<i>palustris</i> L.													
var. <i>californica</i> Gray	X	X			X		X		X		X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Ribes</i>													
<i>aureum</i> Pursh													
var. <i>aureum</i>	X	X	X	X	X		X	X	O	O			
<i>cereum</i> Dougl.	X	X	X	X			X	X	X		X	X	X
<i>inebrians</i> Lindl.	X	X	X	X			X		X		X	X	X
<i>inermis</i> Rydb.													
var. <i>inermis</i>	X	X	X	X	X		X	X	X	O	X		
<i>montigenum</i> McClatchie	X	X							X	X	X	X	X
<i>velutinum</i> Greene													
var. <i>velutinum</i>	X	X	X	X		X	X	X	X		X		
var. <i>glanduliferum</i> (Heller) Jepson		X	X				X	X					
<i>viscosissimum</i> Pursh													
var. <i>viscosissimum</i>	O						O	O	O				
<i>Saxifraga</i>													
<i>aprica</i> Greene	X				X							X	X
<i>bryophora</i> Gray	X				X					O	X	X	X
<i>nidifica</i> Greene	X				X			X	O	X	O		
<i>odontoloma</i> Piper	X	X			X			X		X	X		
<i>oregana</i> T.J. Howell													
var. <i>sierrae</i> Coville	X	X			X			X	O	X	O		
<i>tolmiei</i> Torr. & Gray													
var. <i>ledifolia</i> (Greene) Engl. & Irmsch.	X											X	X
SCROPHULARIACEAE													
<i>Antirrhinum</i>													
<i>kingii</i> S. Wats.				X		X							
<i>Castilleja</i>													
<i>aplegatei</i> Fern.													
var. <i>fragilis</i> (Zeile) N. Holmgren	X	X	X	X			X	X	X		X		
var. <i>pallida</i> (Eastwood) N. Holmgren	X										X	X	
<i>chromosa</i> A. Nels.	X	X	X	X		X	X	X	X				
<i>exilis</i> A. Nels.			X	O	X	X							
<i>lemmonii</i> Gray	X											X	X
<i>linarii</i> Benth. ex DC.	X	X	X	X			X	X	X		X	X	X
<i>miniata</i> Dougl. ex Benth.	X	X	X		X				X		X	X	
<i>nana</i> Eastwood	X												X
<i>peirsonii</i> Eastwood	X											X	
<i>pilosa</i> (S. Wats.) Rydb.	X	X		X				X	X		X	X	X
<i>Collinsia</i>													
<i>parviflora</i> Dougl. ex Lindl.	X	X	X	X		X	X	X	X		X		X
<i>Cordylanthus</i>													
<i>helleri</i> (Ferris) J.F. Macbride			X	X		X	X						
<i>ramosus</i> Nutt. ex Benth.													
ssp. <i>setosus</i> Pennell	O	X	X	X			X						
<i>Keckiella</i>													
<i>breviflora</i> (Lindl.) Straw													
ssp. <i>glabrisepala</i> (Keck) Straw	X	X					X		X				
<i>Limosella</i>													
<i>aquatica</i> L.			O		O	O							
<i>Mimetanthe</i>													
<i>pilosa</i> (Benth.) Greene			X	O	X	X							
<i>Mimulus</i>													
<i>breweri</i> (Greene) Coville	X				X			X		X	X	X	X
<i>coccineus</i> Congd.	X	X										X	X
<i>densus</i> A.L. Grant		X	X	X		X	X	X					
<i>floribundus</i> Dougl. ex Lindl.	X	X			X			X					
<i>guttatus</i> Fisch. ex DC.	X	X	X	X	X			X	X		X		
<i>lewisii</i> Pursh	O				O			O	O	O	O		
<i>mephiticus</i> Greene	X	X	X	X			X	X	X		X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>moschatus</i> Dougl.	X	X			X				X				
<i>primuloides</i> Benth. var. <i>primuloides</i>	X	X	O		X	X	X	X	X		X		
<i>rubellus</i> Gray	X	X			X	X	X	X	X		X		
<i>suksdorfii</i> Gray	X	X	X	X		X	X	X	X		X	X	X
<i>tilingii</i> Regel	X	X	X	X	X		X	X	X		X	X	X
<i>Orthocarpus</i>													
<i>copelandii</i> Eastwood var. <i>cryptanthus</i> (Piper) Keck	X	X	X					X	X		X		
<i>hispidus</i> Benth.	X	X	O				X	O	X		X		
<i>luteus</i> Nutt.	O						O	O	O				
<i>Pedicularis</i>													
<i>attollens</i> Gray ssp. <i>attollens</i>	X	X			X						X	X	X
<i>groenlandica</i> Retz. ssp. <i>groenlandica</i>	X				X							X	X
<i>semibarbata</i> Gray var. <i>semibarbata</i>	X										X		
<i>Penstemon</i>													
<i>bridgesii</i> Gray	X	X	X	X			X	X	X		X	X	X
<i> davidsonii</i> Greene var. <i> davidsonii</i>	X	X										X	X
<i>deustus</i> Dougl. ex Lindl. ssp. <i>deustus</i>			X	X	X		X						
<i>heterodoxus</i> Gray var. <i>heterodoxus</i>	X	X									X	X	X
<i>humilis</i> Nutt. ex Gray		X	X	X			X	X					
<i>newberryi</i> Gray ssp. <i>newberryi</i>	X	X							X		X	X	X
<i>procerus</i> Dougl. ex Graham. ssp. <i>formosus</i> (A. Nels.) Keck	X	X			X						X		X
<i>rubicundis</i> Keck				X			X						
<i>rydbergii</i> A. Nels. var. <i>varians</i> (A. Nels.) Cronq.	X	X	X		X		X	X	X		X		
<i>speciosus</i> Dougl. ex Lindl.	X	X	X	X			X	X	X		X	X	X
<i>Scrophularia</i>													
<i>desertorum</i> (Munz) R.J. Shaw	X	X	X	X			X	X			X		
<i>Verbascum</i>													
<i>thapsus</i> L.	X	X	X	X	X		X	X	X	X	X		X
<i>Veronica</i>													
<i>americana</i> (Raf.) Schwein. ex Benth.	X	X	X		X		X	X	X				
<i>anagallis-aquatica</i> L.			X		O	O							
<i>beccabunga</i> L.	O				O	O							
<i>peregrina</i> L. ssp. <i>xalapensis</i> (H.B.K.) Pennell	X	X	O		X		O	X			X		
<i>serpyllifolia</i> L. ssp. <i>humifusa</i> (Dickson) Syme	X	X	X		X		X	X	X		X	X	
ssp. <i>serpyllifolia</i>		X	X	X	X		X	X	X				
<i>wormskjoldii</i> Roemer & Schultes ssp. <i>alterniflora</i> (Fern.) Pennell	X				X							X	X
SOLANACEAE													
<i>Leucophysalis</i>													
<i>nana</i> (Gray) Averett	X	X					X	X	X		X		
<i>Nicotiana</i>													
<i>attenuata</i> Torr. ex S. Wats.	X	X	X	X			X	X	X				
<i>Solanum</i>													
<i>triflorum</i> Nutt.				O			O	O					

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
TYPHACEAE													
<i>Typha</i>													
<i>latifolia</i> L.	X	X			X	X							
URTICACEAE													
<i>Urtica</i>													
<i>dioica</i> L.													
var. <i>holosericea</i> (Nutt.) C.L. Hitchc.	X	X	X	X	X	X		X					
VALERIANACEAE													
<i>Plectritis</i>													
<i>macrocera</i> Torr. & Gray													
ssp. <i>grayii</i> (Suksdorf) Morey	X	X						X					
<i>Valeriana</i>													
<i>californica</i> Heller	X	X		O				O	X		X	X	X
VERBENACEAE													
<i>Verbena</i>													
<i>bracteata</i> Lag. & Rodr.			X			X	X						
VIOLACEAE													
<i>Viola</i>													
<i>adunca</i> Sm.													
var. <i>adunca</i>	O				O			O					
<i>bakeri</i> Greene													
ssp. <i>bakeri</i>	X	X						X	O	O			
<i>beckwithii</i> Torr. & Gray													
ssp. <i>beckwithii</i>	O							O	O				
<i>macloskeyi</i> Lloyd													
ssp. <i>macloskeyi</i>	X				X			X		X	X	X	
<i>nephrophylla</i> Greene													
var. <i>nephrophylla</i>	X	X	X	X	X	X	X	X	X	X			
<i>purpurea</i> Kellogg													
ssp. <i>atriplicifolia</i> (Greene) Baker & Clausen	X	X		X				X	X	X	X	X	X
ssp. <i>aurea</i> (Kellogg) Clausen		X	X	X				X	X				
ZYGOPHYLLACEAE													
<i>Tribulus</i>													
<i>terrestris</i> L.		X	X					X					